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## Publicity in Los Angeles

SOME time ago we expressed in these columns our idea that much benefit would result from the adoption by city departments of some method of publicity, by which tax-payers at large could be informed more fully and understandingly of how their money was being spent, or how it was proposed to spend it. The advantage of this appears to be appreciated by the officials of the City of Los Angeles, Cal., as evidenced by their endeavor to inform the citizens concerning the proposed scheme for obtaining a water supply from the Owens River, the bonds for which enterprise are to be voted upon on June 12. There are being given in that city public exhibitions of moving pictures and stereopticon views showing the water shed of the Owens River and the route of the proposed aqueduct leading from there to the city, accompanied by a description of the project by Chief Engineer Mulholland, which should enable every citizen to obtain as thorough an understanding of the project as he is capable of entertaining.

Also one of the merchants of the city has arranged to place in the show-windows of his store a complete reproduction in miniature of the Owens River aqueduct throughout its entire length of 226 miles, including 9 miles of steel pipe, about 200 miles of canal, 12 miles of tunnel, and several miles of flumes. In addition to this, all of the details of the plan have been fully published in the local papers; have been carefully considered by the Chamber of Commerce, Merchants' and Manufacturers' Association, and the Municipal League, and the desirability of voting for the bond issue is to be made the subject of a public debate on June 11, the day before the election.

With all this more or less authoritative information available, and even forced upon them, there should be no reason for future complaint by any citizen against any official or other individual for deceiving or in any way wronging the tax-payers in securing the adoption of this project. We hope that should the project be adopted the same pains will be taken during the construction to inform the tax-payers concerning the progress of the same, and furnish them every opportunity for understanding any necessities which may arise for change in plans or for additional cost. By this we do not mean that the tax-payers should be given any voice in the making of such changes, when these are based upon purely engineering considerations; but if these considerations are presented to them fully we have confidence that the majority of them will have the intelligence to appreciate that they are for their best interest, even though they cannot themselves comprehend all the details of the reasons therefor.

## Simple Devices for Pipe Laying

A NUMBER of years ago the writer had occasion to lay some water pipe in a trench where local conditions made it quite difficult to keep the bellholes dry for a sufficient length of time to run the lead. An idea which occurred to him for overcoming this difficulty was put into effect by the use of some telephone wire and an old rubber coat which were found in an adjacent vacant lot, by means of which a sort of water-tight bag was made around each joint, which allowed of both pouring the joint and calking the same. This experience was recalled by the description given in another page of an appliance used in England for making sewer joints of a material called "Rubite," which was poured hot into a mold. While this water jacket was, we assume, devised for this class of sewer joint, we see no reason why it should not be used to equal advantage for water pipe joints in wet trenches, where it is a common practice to make a sump

at each bellhole and by pumping therefrom to keep the water below the bell until the lead has been run. The labor of shifting the pump from bellhole to bellhole and of working the same could be avoided by this contrivance, and it would seem as though the work could be performed to a better advantage. Another device illustrated in the same article is a hand pump apparently similar to an ordinary bicycle pump, used for testing the water tightness of the joints. Without having had any experience with such a contrivance, we doubt whether it could be recommended for general practice, since its tendency is to blow the cement out of the bells before it has had time to reach its ultimate strength. By damming water back to secure a 3 or 4-foot head above the pipe, any failure to secure as tight joints as is possible with the use of cement may be detected.

#### Street Car Fenders

THE matter of fenders on street cars is a very troublesome one, and, in spite of the very high mortality due to street car accidents in many of our cities, no generally acceptable solution of the question appears to have been arrived at. In New York City, for instance, more fenders are usually to be seen piled up at the car stables than can be found upon the cars themselves. One reason for this is probably because neither city nor company is at all satisfied with the workings of any fender which has yet been tried.

The Massachusetts Railroad Commission issued a short time ago its decision on this question, after a consideration of many months and even years. This decision follows an investigation which was completed last December of fenders and wheel guards, both at home and abroad, the inquiry concluding with a series of tests made in Newton, Mass. After completing these the companies were requested to give notice to the Board, on or before the 1st day of May (which time was subsequently extended to the 15th), of their preferences in respect to these safe-guards. The Board states that "notwithstanding the multiplication of patents and the ingenuity of experts, we know of no device in use or exhibited through sketch or model that, attached to a street car moving at varying speeds, can be relied upon to always trip a standing person or pick up a prostrate body without injury. It must remain unsafe for young children to play in streets that are occupied by railway tracks, or to cross them unattended, and unsafe for older persons to step carelessly in front of cars. Meanwhile there is need of more effective car fenders and wheel guards. Although applications for the most part call for a further endorsement of the Pfingst fender, the use of which had previously been permitted by the Commission, we do not share the confidence expressed in it and cannot approve it to the exclusion of other devices.

"The newer devices are, as a rule, automatic. In passing upon them it is necessary to bear in mind the distinguishing characteristics of the service upon the

various lines of railway. For example, we believe it would be hazardous to attach to the front end of high-speed interurban cars, operated under conditions commonly met, automatic fenders which might upon occasion so fall or be thrown in the way of the car as to cause a derailment. On the other hand, there would be no such hazard in the use of an automatic wheel guard upon cars as ordinarily operated in city streets. The Board will, therefore, require an experiment with these wheel guards, though at times in winter snow and ice will undoubtedly interfere with their success.

"A fender or wheel guard that must be dropped by the motorman in case of threatened accident is open to the criticism that it complicates his duties at a time when he ought to give paramount attention to the stopping of the car. On the other hand, this device possesses an advantage over the automatic, in that it is dropped only when needed and by intelligent action, and so can be carried at a height such as to eliminate risks from contact with obstructions. A very important change in this type of fender or wheel guard is that by which the application of the emergency brake itself drops it into position. A trial of these devices will also be required.

"Climate and roadbed make it possible in Liverpool to use a guard which is carried so close to the surface of the track as to be very successful in its one purpose of preventing bodies from passing under the wheels. While weather and road bed construction prohibit upon many of our railways the use of a guard carried so close to the ground, wheel guards have been brought to our notice which possess some of the features of the Liverpool device, and which are apparently capable of good work. The Board will require the use of these wheel guards upon selected cars." The Board also states that experiments are to be made upon rigid devices which shall come not closer to the ground than twelve inches, so as to pass over a prostrate body. They state that it is their purpose to secure actual experiments with different types of fenders and wheel guards in actual practice upon the various street railways of the State, the various companies to complete by the 1st of December changes which will be decided upon in the immediate future by conferences between the Board and the various companies; these changes being designed to make possible the testing of various appliances, as outlined in the above report.

#### Ice Water Fountains

In the report for the year 1906 of the Water Board of the City of Cambridge, Mass., the number of fountains and troughs used in the city was given as twenty-nine, of which five are ice-water drinking fountains. The use of ice-water fountains might, perhaps, be adopted with advantage by many other cities, and data concerning those used in Cambridge may be of interest. These fountains were kept supplied with ice from June 30 to October 13, inclusive, and the cost ranged from



\$115.40 to \$180.95 per fountain for the season of 105 days, the average cost being \$1.57 per day per fountain. The cost of ice during this time was 20 cents per 100 lbs. during about half the time, and 25 cents during the remainder.

### Stronger Iron Bridges

A DISCUSSION was had at a recent meeting of the Boston Society of Civil Engineers, at Boston, Mass., upon the matter of the strength required in iron bridges to support modern electric cars. Many points brought out were of interest chiefly to the designer of bridges, such as the percentage of weight of car which should be allowed for by each of several stringers, the effect of planking in distributing the load, etc. Mr. F. P. McKibben called attention to one practice which he considered especially objectionable—namely, that of supporting the stringers which carry the railway tracks upon small steel shelf angles riveted to webs of the floor beams and not braced by stiffeners, such shelf angles in some cases being as small as  $3 \times 3 \times \frac{3}{8}$  inch, which angles he believed to be almost invariably overstressed. In this opinion he was seconded by Mr. L. S. Coles. As to the loads to be supported, there are now being placed on the Boston surface roads a car which will weigh when loaded about 41 tons, the load on the motor truck being about 25 tons, which will, especially for short spans, call for the strength and stiffness which would be required for a uniformly loaded 50-ton car. All bridges, therefore, which are or may be called upon to carry surface roads should be designed on the basis of at least a 50-ton car, with an addition for impact of practically half that ordinarily allowed for steam locomotive roads. Under the increasing weight and capacity of street railway cars, there can be no question that many highway bridges are being subjected to stresses dangerously near the limit of their strength, and it is hoped that city authorities which have not yet done so will look into this matter and replace and strengthen such bridges as may require it, before a series of accidents shall impress this necessity more strongly upon the official mind.

### DANVILLE'S GAS AND WATER PLANTS

New Pumping Station and Mechanical Filters—Showing Made by Each—Gas Plant Apparently in Healthy Condition

DURING the year 1905 there was completed in the City of Danville, Va., a new pumping station and filter plant, and the operation of the same between July 7, 1905, and April 30, 1906, is described in the latest annual report of the Water and Light Department of that city. The new pumping plant contains a 3,000,000-gallon Snow pumping engine, horizontal cross-compound crank and flywheel, high duty, in addition to which is an emergency 1,000,000-gallon engine of the same make. The filter plant was built by the

Pittsburg Filter Manufacturing Company, and consists of four filter units, each of 500,000 gallons capacity in 24 hours. Each of the units consists of cyprus tank 8 feet high and 15 feet in diameter. Under the filter-room is a 200,000-gallon clear-water basin. There is also a settling basin of 500,000 gallons capacity. Altogether the pumping station, pumps, boilers, filtering equipment, residence for the engineer, and other connected improvements cost about \$95,000. One of the important benefits derived from this new plant is the saving in amount of coal required by the pumps; the old pump having raised 147 gallons into the reservoir for each pound of coal consumed, whereas the new pump raises 274 gallons. Also the pumping is done during one shift of engineers, whereas previously two had been required.

Between July 7 and April 30, 216,789,741 gallons of water were filtered, in connection with which there were used 6,652 pounds of lime and 41,353 pounds of sulphate of alumina, which is an average of 1 1-3 grains of sulphate of alumina per gallon. The Superintendent reports that during the entire time the water has been perfectly clear and unusually pleasant to the taste. A series of bacteriological tests of the efficiency of the filter were made by Mr. Ernest C. Levy, Director of the Laboratory of the City Water Department of Richmond, Va. The contract with the Pittsburgh Filter Manufacturing Co. calls for the removal of 98 per cent. of the bacteria when the latter exceeded 3,000 per c.c. in the raw water, and when less than this that there should not be over 100 bacteria in the filtered water. Of ten tests made the raw water in five contained less and in the other five more than 3,000 per c.c., varying from 550 to 8,250. The number in the effluent of all ten tests ranged from 0 to 8. The average bacterial efficiency for all the tests was 99.9 per cent., and the lowest single efficiency was 99.5 per cent. A test of alkalinity showed that there could still have been added about 3-4 of a grain of sulphate of alumina per gallon without this material appearing in the effluent.

Partly because of the expense of pumping and filtering the water, the use of meters has been made practically universal, with the result that the consumption has fallen off considerably and the average water rental is fully 60 per cent. less than under the old system, while at the same time every citizen has an abundance of water. The citizen thereby saves 60 per cent. of water rental and the Department finds itself none the worse financially. The consumption per capita decreased from 116.7 gallons to 53.6 gallons in the two years during which the meter system was being introduced, and was 44 gallons during the year covered by the report.

This city is one of the few which owns and operates its own gas works. The city during the year in question made, according to the station meter, about 41,900,000 cu. ft. of gas, and delivered, according to the consumers' meters, about 34,400,000 cu. ft., the difference being 7,500,000, showing an apparent leakage,

condensation, etc., of 17.8 per cent. It is explained that this loss is due largely to the difference in temperature of the station meter and the consumers' meters. For the production of this amount of gas there was used 8,820,000 lbs. of coal, giving an average yield per lb. of coal of 4.75 cu. ft., with an average candle power of 16.5. The coal cost from \$3.37 to \$3.40 per ton at the works. The rate charged for gas was \$1, and all connections were made free. Gas was furnished through 1,138 meters. During the year 89 gas ranges were set without cost to the consumers. The total receipts of the company for the year were \$33,779.93 from rental, \$4,017.70 from coke receipts, and \$521.65 from tar receipts; a total of \$38,319.28. The disbursements amounted to \$32,579.16, of which the largest item was \$15,319.33 for coal, the next largest \$7,376.72 for payroll, and the next 4 per cent. interest on bonds amounting to \$4,038.72. This left a balance in favor of the department of \$5,740.12. The total cost of the plant to date is not given, but if we assume it to be the amount upon which interest was paid—namely, \$100,968.21—then this was sufficient to pay a depreciation of approximately 5.7 per cent. on this amount. As the plant has been running under municipal control for thirteen years it is probable the actual cost has been considerably greater than this, although, on the other hand, it may have been that bonds have been issued for replacing worn-out portions of the plant. On the face of

it we can apparently do no better than to take the above figures as representing the amount upon which depreciation should be charged, and 5.7 per cent. would appear to be a very fair rate to be allowed for this. In other words, it would appear as though the plant were just about paying all expenses which could be legitimately charged against it, and no more, which is the condition which should be aimed at by every municipal plant.

#### An English Non-Rigid Pipe Joint

ENGLISH engineers have devised many methods for obtaining water-tight joints between vitrified clay sewer pipes, and one of the latest of these is known as the "Rubite" pipe joint, which is said to be non-rigid and readily made absolutely water tight. It is claimed to be automatic in construction and not dependent for its security on the labor expended upon it. That it is capable of being made under adverse conditions of bad ground and water is indicated by the illustrations, one of which shows the method of jointing ten-inch Rubite pipes on the surface in nine-foot lengths, as done at York, England, for the Dringhouses main sewerage installation. When the joints are made on the surface of the ground the pipes are laid on a wooden cradle or they are held in position by a piece of material passed through them and supported at each end. A very small portion of soft clay is wiped around the contiguous ends of pipes, care being



MAKING A RUBITE PIPE JOINT



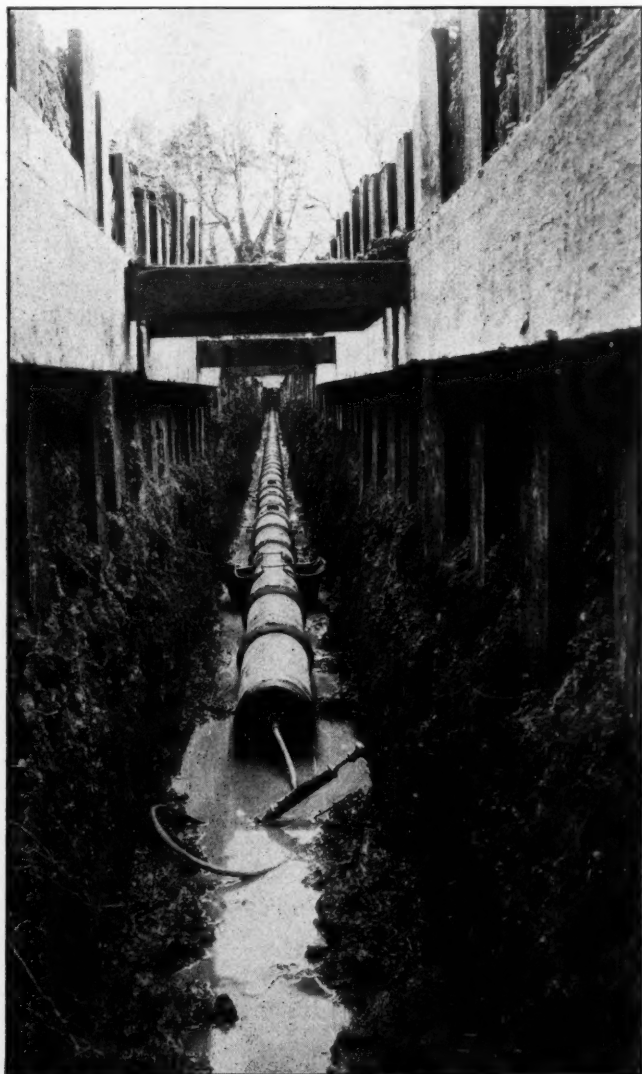
taken that none of the clay is allowed to get into the keying grooves. This effectually prevents the possibility of any jointing material entering the pipes and causing an obstruction. The pipes are then butted together, the molds placed in position and "Rubite" is poured in. If a cradle is used, the bottom half of the mold is kept in position by wedges, the top half retaining its position by its own gravity. If the other method is adopted, the molds are fixed by clamps fitting on the lugs, which may be removed as soon as the joint is cooled. To prevent the material adhering to the molds they are given a coating of lime wash. When the depth of the trench or timbering will permit, a number of pipes may be jointed on the surface and then lowered into the trench. It is stated that in ordinary practice a most convenient number of stoneware pipes to joint on the surface is six lengths of four-inch, four lengths of six-inch, or three lengths of nine-inch pipe.

As a test of this non-rigid pipe joint, three drain pipes were jointed and afterwards bent, by supporting the same at the center and placing weights at each end, until they were six inches out of the straight, after which the joints were subjected to an hydraulic pressure of twenty-

eight pounds to the square inch and were found to be perfectly tight, thus showing the permanent water tightness of this joint in cases where settlement occurs.

In one of the illustrations is shown an ingenious contrivance for jointing pipes in a trench in which water is running. This was accomplished in laying the main sewer at Marlborough by the aid of the water jacket, the general features of which are plainly shown. The third illustration gives a better view of completed joints in the bottom of a trench sixteen feet deep, in bad ground, approaching the crossing of the Northeastern Railway of England at the Dringhouses main sewerage installation.

Hydraulic tests of these English pipe joints were made at the Broadway Testing Works at Westminster, in London, the pressure being applied by means of a hydraulic hand pump. These hydraulic pressure tests were made on two joints between four-inch earthenware pipe, which stood without failure a pressure of 120 pounds per square inch, or a head of 279 feet. An additional test was made to demonstrate the reliability of the joint under heat, in which ten four-inch pipes with "Rubite" joints were subjected to steam under forty-five pounds pressure from the blowing off of a boiler in close proximity, the steam being driven in at one end of the pipe and a bag placed to cover the outlet. On examination after this severe test every joint was found to be hard and perfect.



LINE OF SEWER PIPE, WITH JOINTS COMPLETED  
Showing testing pump and stopper; also water jackets keeping joints dry



SEWER PIPE, SHOWING RUBITE JOINTS

## NEWS OF THE MUNICIPALITIES

**Divers Subjects of General Interest and Their Treatment by City Councils and Officials—Streets, Water Works, Lighting and Sanitary Matters—Police and Fire Items—Government and Finance**

**Roads and Pavements**

**COLUMBIA, S. C.**—Columbia proposes to expend large sums of money on street improvements during the next few years, and to obtain information along this line a committee was selected to visit the large cities of the South. They have visited Asheville, Knoxville, Chattanooga and Birmingham. The sum of \$60,000 will be spent on paving this year and possibly more each succeeding year for several years. The committee consists of R. C. Keenan, George W. Collins and F. W. Seegers, members of the City Council, and City Engineer E. N. Chisolm, Jr. Mr. Keenan is Chairman.

**COLUMBUS, O.**—Acting on the advice of City Solicitor George S. Marshall, City Engineer Maetzel proposes to tear down any private structure encroaching on a public highway. For years the city has allowed the encroachments and relied upon the courts to remove them with the result that fences and sheds encroach on the streets all over the city.

**DETROIT, MICH.**—A letter has been sent by Assistant Corporation Counsel Hally to the Council complaining that the city's interests in respect to the work of abolishing grade crossings have not been properly guarded. He states that under some of the bridges there is a constant dripping of a mixture of oil, water and sand from the girders to the pavement. In some places water flows over the top of retaining walls down onto the sidewalks. Instances were cited in which the rights of citizens were invaded without their even being consulted. Mr. Hally says that the work has not been done under city inspection and he suggests the appointment of a commissioner or engineer to take charge of such matters.

**ELIZABETH, N. J.**—Street Commissioner Thompson, under the direction of the Streets and Highways Committee, expects to make a general application of oil to the telford pavements of this city. About three thousand gallons of oil have already been distributed on Chilton Street and also on Newark Avenue and in these streets the laying of the dust has been entirely successful. The Street Commissioner expects to receive 8,000 gallons of road oil soon and when it arrives he will immediately proceed to distribute it. It is hoped to have all the telford roads treated before very hot weather so as to avoid any disagreeable odor which might be caused by the heat of the sun on very warm days.

**SCRANTON, PA.**—The campaign for the proposed million dollar paving ordinance, which will soon be submitted to the voters of the city, was formally launched at a meeting of the committee in charge of the movement, when Mayor J. Benj. Dimmick submitted a detailed statement of the plan. The idea is that the city would contribute fifty cents per square yard toward the paving of all streets designated to be paved by the commission, which sum is estimated as about the minimum cost of macadam; upon all other streets the city is to lay macadam, the cost of grading, curbing and guttering, however, to be charged upon abutting property. In carrying out this campaign, permanent headquarters have been tendered the committee. Public meetings have been arranged and public speakers secured, and photographs of streets in their present condition will be shown by the stereopticon. D. B. Atherton is Chairman of the Committee.

**Sewerage and Sanitation**

**ALBANY, N. Y.**—Attorney General Jackson has given to Health Commissioner Porter an opinion that he is prohibited by statute from preventing the contamination of New York's water supply by the sewage of the village of Mount Kisco. He declares, however, that any citizen affected by the nuisance can secure an abatement of it by an appeal to the courts.

**CHARLESTON, S. C.**—New ordinances amending the sanitary laws will, according to Health Officer Dr. J. M. Green, be of material assistance to the department in making the city more cleanly. According to the new law, agents and occupants of houses are made equally liable with the owners for keeping the premises sanitary and clean.

**LONG BRANCH, N. J.**—The City Publicity Bureau has demonstrated its own usefulness and scored a point in favor of the city in interesting Governor Stokes in securing a more correct statement of the city's death rate in the official reports of the State Board of Health. It was found that the deaths of non-residents at the Monmouth Hospital were charged against the city, thus making it appear one of the most unhealthy in the State. The rate instead of being 21.2 should be given as 17.6 per thousand.

**NORFOLK, VA.**—The Board of Health has ordered that the Sanitary Inspector be instructed to notify everyone in the city to connect with public sewers within the next thirty days. The matter came up in connection with the granting of a permit to a property owner to connect with a private sewer, although there was a public sewer available. The Board decided that it was for them to say definitely that connections must not be made with private sewers on streets where public sewers existed.

**PASADENA, CAL.**—Since the last annual municipal report, seven miles of new sewer have been built, with the result that the sewage delivered at the sewage farm is now 200 miners inches instead of 150 as it was early in the year. The building of a trolley line across the farm makes it important that there should be no objectionable odors. The recommendation of Superintendent McGraw is that the sewage be first passed through septic tanks. He thinks this process would be likely to increase the income from the farm as increase in purity of the sewage makes possible the raising of more valuable crops.

**WASHINGTON, D. C.**—The new sewage pumping station at the foot of Second Street Southeast, was recently put in operation. The station contains the newest models of centrifugal pumps, operated by three-cylinder horizontal engines. It has its own lighting plant. The entire station was set in motion doing actual sewer pumping for the first time without a hitch.

**YONKERS, N. Y.**—Without a dissenting vote, the Common Council, at a meeting largely attended by property owners who favored the project, passed the Bronx River Sewer Bill, incorporating some changes made necessary by the disapproval of the measure by the City of Mount Vernon. As it is, the bill will have to go before the Legislature again. If it had not been accepted by Yonkers the measure would have been dead. The new bill extends the life of the Commission, increases the rate of interest on bonds to 5 per cent., increases the limit



of expenditure to \$2,250,000. Commissioner Cooper explained that when the sewer was completed, house sewage would enter the sewer and surface drainage into the Bronx River. Mr. Cooper stated further that the State Health Department was rapidly forcing the double sewerage system upon the municipalities of the State.

#### Water Works

BOSTON, MASS.—A bill is pending before the Legislature requiring the metering of all water in the Metropolitan district, which includes towns and cities about and including Boston.

CORVALLIS, ORE.—Four charter amendments were passed at the recent city election, namely: To authorize the Corvallis Water Commission to acquire a pumping station and increase the water supply; to authorize the same company to condemn and acquire a water shed; to fix the terms of office of the Water Commission and making the office elective; to provide for holding special elections for voting upon charter amendments.

EAST ORANGE, N. J.—Much interest is taken in the suit of a Livingston farmer against the city of East Orange. The complainant asks \$10,000 damages for loss of his water supply due to the sinking of 20 artesian wells by the city. The contention of the city is that the springs alleged to have been dried up were supplied from a water stratum on a level much higher than that tapped by the East Orange wells.

EL PASO, TEX.—The International Water Company, H. J. Simmons, President, has sent a communication to Mayor Sweeney regarding improvements in the service. The company expresses a willingness to install an additional pumping plant, a 3,000,000 gallon reservoir, at an elevation 25 feet above the present reservoir, to fence or screen all reservoirs, to furnish the city 18,000,000 gallons of water free per annum for park and school purposes only. In return the company asks that the first reduction of rates mentioned in the original contract be postponed until the population of the city reaches 75,000 and the second reduction to take place when the city has a population of 100,000. Mr. Simmons states that these concessions are necessary in order to enable the company to raise funds for the work.

LYNN, MASS.—The Committee on Water Supply of the State Legislature has finally decided upon the draft of a bill in reference to the improvement of Lynn water supply. The city will be given authority to borrow \$300,000 in excess of the debt limit. The Lynn Water Board is directed to make certain investigations and report them to the State Board of Health together with its plan for improving the supply. If the State Board of Health and the Lynn Water Board are able to agree on a plan, whether for filtration or some other scheme, then the city has the right to borrow the money and go ahead.

SENECA FALLS, N. Y.—At a meeting of the State Board of Water Supply, Engineer Harry J. Momson described the proposed water works which he has planned. It is proposed to run an intake pipe at least half a mile out into the lake where a depth of 30 feet is found. Twelve-inch mains will carry water from the pump house to the village, and 4 to 12-inch mains will be used within the village. About 19 miles of streets out of a total of 26 miles will be piped. About 200 fire hydrants will be placed, 250 feet apart in the business district and 400 feet apart in the residential section. An elevated reservoir holding 300,000 gallons will be located in the village, maintaining a pressure of from 67 to 102 pounds. An allowance of 60 gallons per inhabitant will be made and 19,000 gallons will be allowed for flushing the new sewers.

#### Street Lighting and Electric Power

HAMILTON, O.—For some time the municipal gas plant has not been operating and the city has been buying gas in the holder at 35 cents a thousand cubic feet from the Hamilton Gas and Electric Company. The company notified the Board of Public Service that, with June 30, it will reduce the price of gas to its private consumers to 60 cents a thousand cubic feet, but will refuse to sell gas to the city at a price less than 60 cents. Both the company and the city have been selling gas to private consumers at 80 cents. It is believed that the city will be forced to rebuild its plant and resume operations, cutting the price to 60 cents.

MANITOWOC, WIS.—The offer of the Gas Light Company to sell its plant to the city for \$160,000 has been rejected, although the city's special investigating committee had reported that the company's gross receipts for last year were \$25,000 and that its plant is in first-class condition.

OGDEN, UTAH.—The application of the Utah Light and Power Company for permission to take practically all of the water of the Ogden River at Idlewild, pipe it to the mouth of the canyon and use it for power purposes, then return it to the river at a point three miles below the place from which it was taken, has been rejected for technical errors. This will give those who believe that the drying up of the river bed for a distance of three miles would have an injurious effect on the health of the city as well as on property values, an opportunity to prosecute their opposition to the plan.

OSWEGO, N. Y.—An ordinance has been adopted providing that all power wires, excepting trolley wires, be placed in the municipal subway within ninety days. A fine of \$50 a week will be exacted for every week the electric companies retain overhead wires beyond the time limit.

PHILADELPHIA, PA.—Before the Council Committee on Gas at a recent meeting addresses were made by prominent men who favored the continuation of the United Gas Improvement Company's lease for the full thirty-year period. It was claimed that, because of hundreds of public buildings for which light is furnished free, the gas company actually received but 80 cents and a fraction for each thousand cubic feet of gas manufactured instead of one dollar, which is the nominal price. On this basis it was argued that Philadelphia was receiving gas at a lower average rate than any other city of over 100,000 inhabitants.

PITTSBURG, PA.—The first step in Mayor George W. Guthrie's fight against the Philadelphia company's 20 per cent. increase in the price of natural gas has been announced. An appeal will be made to the Governor to have Attorney General Hampton L. Todd bring quo warranto proceedings against the company to test its charter rights. If this plan does not bring results, the Governor will be requested to call a special session of the Legislature to enact a special law to cover the case. The Philadelphia company controls a practical monopoly of the supply of light, heat and transportation in the city of Pittsburgh, and the increase of the cost of gas is only one act that has aroused public opposition.

#### Fire and Police

NEW YORK, N. Y.—Chief Croker introduced a demonstration at Fire Headquarters recently of the new apparatus designed to aid and protect firemen who have to fight flames in the cellars of big buildings. Battalion Chief Beggin directed it. The contrivance is a set of perforated 1½ inch pipes stretching around the cellar walls. If the cellar is extra large there is also a grid-

iron of pipe attached to the ceiling. The nozzle man simply makes a connection outside the building and the basement is drenched without anybody's having to risk suffocation by entering.

PATERSON, N. J.—The Police Department has been reorganized by Chief Brinson and 59 new men added. The average age of the new men is 30.55 years. New details have been put into effect. The force now comprises 145 members apportioned as follows: Chief, 1; Captain, 1; sergeants (one in charge nights and one in charge days), 2; sergeants (assigned as detectives), 6; night posts, 51; afternoon posts, 37; traffic squad (8:30 A.M. to 6:30 P.M.), 4; morning posts, 4; night reserve, 3; City Hall, 2; park officers, 2; desk officers, 3; doormen at headquarters, 2; depot officer, 1; court officer, 1; truant officer, 1; chief's clerk, 1; special, 1. Men doing patrol duty send in reports seven times during the morning detail, seven in the afternoon and four at night. The table has been so arranged that calls alternate in such a way that they come from different sections, and the reports will be entered on the tape at headquarters every minute. The day reserve will be from 8 A.M. to 8 P.M. and will be divided into three shifts of five men each. This extra duty of four hours will come once a week.

SAN FRANCISCO, CAL.—Chief Engineer Shaughnessy has reported to the Fire Commissioners that during the past year the Department had rebuilt fifteen fire-houses, rehoused eleven engines, the same number of hose wagons, four truck companies, six chemical engines and two batteries.

SEATTLE, WASH.—Chief of Police Wappenstein says that fully two-thirds of the work that the police are now doing is caused by the acts of juvenile offenders. For this reason, he favors a scheme proposed by members of the Seattle Humane Society to establish a home for children who have formed criminal habits. Wherever it is found that the home life of the children is responsible for their habits, they will be taken and placed in an institution where it is hoped to correct them.

SPRINGFIELD, MASS.—The old police patrol wagon ended its days of usefulness for the Department when it was shipped to Boston to be made over for other uses. The wagon has done duty for over 12 years and was called on for all patrol work prior to the arrival of the police automobile several years ago.

#### Government and Finance

BOSTON, MASS.—Beginning June 1, all contracts, in accordance with a Legislative act applying to all cities, were opened to public inspection at the office of the City Clerk. The act makes it the duty of every city officer who executes a contract in behalf of the city to furnish a copy of the contract to the City Clerk, where it may be inspected by any person during business hours. Contracts must be kept in convenient forms and indexed according to subject matter for ready reference.

CHICAGO, ILL.—In comparing the number of arrests in Chicago for the period during which the Municipal Court has been established with a like period before it was established, Judge Orrin R. Carter gives the following figures: Total arrests for six months from December, 1904, to June 1, 1905, 36,663; total number of arrests for a similar period from December, 1906, to May 22, 1907 (the period during which the Municipal Court has been operated), 21,000. Nevertheless, records show that about 200 persons more are serving jail sentences now than were serving sentences for a similar period a year ago.

HARRISBURG, PA.—A law establishing a civil service system in cities of the second class, Pittsburg, Allegheny

and Scranton, has been signed by Governor Stuart. This law, which follows in general the Philadelphia act, was advocated by the Pennsylvania Association, Mayor Guthrie of Pittsburg, the Pittsburg Chamber of Commerce, the Scranton Board of Trade and other civic organizations.

NEWARK, N. J.—The Charter Revision Commission is considering suggestions made by City Counsel James R. Nugent, for changes in the plan of city government. The desire of the Commission is to simplify the city government and to increase the power of central authorities. Single headed commissions for many of the more important branches of the government are favored. The Mayor's term of office may be extended to four years and his power of appointment largely increased so as to include the appointment of commissioners who would assume the duties of various Boards in the present form of government. The number of aldermen may be decreased from two to one for each ward.

#### Refuse Collection and Disposal

GALESBURG, ILL.—At a recent meeting, the City Council decided to purchase the patent right of the Andrew Engle system of garbage disposal for one year. This action was the result of a satisfactory test recently made in the presence of Mayor Griffin and other city officials. Mr. Engle took a half barrel of night soil, placed it in a box with one tenth part of its bulk of lime, covered it with slack coal of the cheapest quality and added a quart of tar. After about twenty minutes, the residue of a granular consistency was placed in the furnace of the water works where it burned freely.

GRAND RAPIDS, MICH.—The Special Committee of the Common Council has recommended rules relative to the collection of garbage. The regulations define garbage, miscellaneous refuse and ashes. Garbage is to be placed in tight metallic cans with water proof covers, the cans being furnished by the householder and scalded once a week. If material is put in cans otherwise than as specified, the collectors will refuse to take the contents, and will send a special wagon to remove it, for which a fee of 25 cents will be charged.

During the last fiscal year there were burned 21,308 loads of garbage and refuse as compared with 19,767 loads the year before. The cost was, for: Labor, \$2,921; fuel, \$2,256; repairs, \$420; miscellaneous, \$420; total, \$5,663.

JOHNSTOWN, PA.—A general desire is expressed for an improvement in the system of street cleaning. The proposition defeated last year to abolish the offices of three Street Cleaning Commissioners and place the whole Department under the supervision of a single head is being revived. A system is desired of cleaning the streets at night, a sprinkler to precede the brushes.

WASHINGTON, D. C.—Commissioner H. L. West's orders to the Superintendent of Street Cleaning to start a campaign for clean alleys during the summer season are calculated to work for the good of the public health. Many of these alleys are mere dumping places for refuse of all sorts. Some of them are so rarely visited by the cleaners that they remain for weeks at a time in a foul condition. Those which run east and west through closely built blocks are never touched by the sun save at the extreme ends, and in consequence they remain damp and ill smelling throughout the year. Much of the responsibility for keeping the alleys clean rests upon the householders. With the police serving as admonitors supplementing the services of the regular inspectors and prodding the public into a more acute sense of its responsibility, the condition of the alleys may be brought to a much higher standard.



### Parks and City Beauty

BALTIMORE, MD.—During the conference with Mayor Mahool, Major R. M. Venable, President of the Park Board, stated that the Board had in the four years of its official existence added an area of land greater than that enclosed in Clifton Park. These extensions have amounted to 400 acres and have cost \$375,000. Major Venable believes that more attention should now be given to developing the parks, but he desires that the ordinance submitting a new proposed loan of \$1,000,000 to the people should be so worded that the funds could be used either for developments or extensions.

DETROIT, MICH.—The offer of the Scripps heirs to give the city the Trumbull Avenue property as an addition to Scripps Park is characterized by Mayor Thompson as unique in the history of municipal philanthropy, in that the donors of property for park purposes have undertaken the entire expense of fitting it for public uses. This estate has also donated the classic pictures in the Art Museum on Jefferson Avenue, which formed the foundation of that collection.

PHILADELPHIA, PA.—City Forester Lewis, admitting the lack of care of the trees and shrubbery in the 40 public squares and parks of the city as noted by Mayor Reyburn, complains of the lack of funds to employ skilled workmen. The appropriation for the Forester's work this year is \$15,000, whereas the city of Boston, for example, appropriates \$125,000 for the same purpose.

SANTA FE, N. M.—The Tree Planting Committee of the Board of Trade has completed the work of planting trees on the streets leading from the Union Station to the center of the city. The committee intends to keep on adding one or two hundred trees each year. The elm is the favorite tree and it is the intention of the Santa Fe Board of Trade to make that city a city of elms, like Hartford, Conn.

WATERTOWN, N. Y.—At the invitation of the Municipal Improvement League, Charles Mulford Robinson, of Rochester, recently visited Watertown for the purpose of looking over the ground and suggesting plans along which the league may work in its efforts to improve the appearance of the city. A meeting was held at the Flower Memorial Library which the Mayor, the Common Council, members of the City Boards and of the Chamber of Commerce attended.

### Rapid Transit

PITTSBURG, PA.—The project of the Pittsburgh Subway Company to build a tunnel to East Liberty and a sub-surface loop around the downtown business section of Pittsburgh is indirectly condemned in a report of the Rapid Transit Commission now in the hands of Mayor George W. Guthrie. The Commissioners believe that a subway would not pay and they attempt to demonstrate that a suitable rapid transit system must combine the underground with the overhead system of transportation. It should also be borne in mind that trains can be operated at a higher rate of speed than separate cars. Another recommendation is that some form of rail should be used that will prevent wagons from "tracking," and that room should be found on the sides of the railway tracks to permit wagons to pass.

ROCHESTER, N. Y.—The managers of the Rochester Railway Company are understood to be negotiating with the Niagara, Lockport & Ontario Power Company for the purchase of 2,000 horsepower to supplement the electric power generated here for the use of the various electric lines controlled by the Rochester Railway Company. The power of the company was not

sufficient on Memorial Day to move properly all the cars on the trolley lines to the lake and bay and with the increasing demand made on the power it is evident that some permanent addition must be made to the present supply.

### Miscellaneous

GREEN BAY, WIS.—The Special Committee who were appointed to investigate the best type of bridge to be built over the Fox River have recommended the Trunnion Bascule type. The Committee visited Chicago, where there are thirty bascule bridges. In Cleveland a 150-foot single bascule, the second largest in the world, which spans the Cuyahoga River and gives a clear channel width of 120 feet at right angles to the stream, was inspected. The reasons given for recommending this type of bridge are:

1. Under existing conditions is cheaper by about 15 per cent. than the ordinary swing bridge.
2. Does not require a center protection pier, which is expensive to construct and still more expensive to maintain.
3. Has machinery of market type; easily replaced; completely and readily accessible.
5. Is perfectly balanced and under absolute control.
6. Has minimum friction and therefore least cost of maintenance.
7. Is self-locking, and therefore independent of the operator.
8. Is the fastest and easiest running bridge we have seen.
9. Affords closure for roadway and sidewalks when open.
10. Hand power operation is provided, to be used when the current is off.
11. It is the opinion and conclusion of your committee, after careful examination, investigation and due consideration, that the above described bridge as recommended is the bridge to build at Walnut street crossing.

HARRISBURG, PA.—The McNicol bill authorizing cities to take practical steps for the regulation of elevators has been signed by Governor Stuart. Each city is authorized to establish a Bureau of Elevator Inspection and cities may adopt ordinances specifying the kind and character of material that may be used for elevators, the kind and character of safety devices as well as rules and regulations for official inspection and reports on accidents. No elevator or appliance shall be finally rejected as dangerous or unsafe until the manufacturer shall have had opportunity, in a public meeting before the Chief of the Bureau to disprove charges.

KANSAS CITY, MO.—Founded in 1857 on the banks of the Missouri River, heralded as the metropolis of the Southwest, even the location of the town called Quindaro was forgotten until a clerk, examining old records, found the survey in an old box. The paper was originally filed by James Lyle, a Free State man; the plan shows a city of 5,355 lots, a levee from 160 to 240 feet wide along the river, a reservation for mills and factories, etc. The streets were lettered and numbered. The drawings are all carefully made by hand, blueprints being unknown in those days. The location of the proposed metropolis is northwest of Kansas City, about two miles beyond the city limits. Nothing now remains of the old town but a few scattered farm-houses and some ruined stone walls.

NEW YORK, N. Y.—Another step was taken in the progress of the Pennsylvania Railroad's extensions within New York City when plans for the East River bridge of the New York Connecting Railroad were submitted to the Municipal Art Commission for its approval. The bridge will form part of a steel viaduct more than three miles long, which will pass over Hell Gate, Ward's Island, Little Hell Gate, Randall's Island and the Bronx Kills. The structure will require 80,000 tons of steel and will carry four tracks imbedded in stone ballast to deaden sound. The span over Hell Gate will be 1,000 feet between abutments 200 feet high carrying tracks 140 feet above the water.

## LEGAL NEWS

### A Summary and Notes of Recent Decisions—Rulings of Municipal Interest

#### TRADING STAMP ORDINANCE

**Denver vs. Trueauff.**—A city ordinance forbidding any gift enterprise, defined to include the giving of any trading stamp or other device which shall entitle the purchaser of property to receive from any person or corporation other than the vendor any property other than that actually sold, is not justifiable as an exercise of the police power.—Supreme Court of Colorado.

#### WOODEN AWNING

**Brown vs. Carrollton.**—Where a wooden awning over a sidewalk did not constitute a public nuisance, per se, whether they were so constructed and maintained as to interfere with the public use of the street, or whether they had become a menace to public safety was a question of law for the courts; the city having no authority to declare the same a nuisance and require the summary abatement thereof.—Court of Appeals, Kansas City, Mo.

#### LOTS OVERFLOWED

**Campbell vs. Vanceburg.**—Campbell is the owner of property which he claims was overflowed by the negligence of the city in adopting an insufficient system of drainage in front of his property. It appeared that his land was low and had always been more or less overflowed at times by the water coming down from neighboring hills. It was held that if the city adopted a drainage plan and by its act obstructed the water so that it overflowed the land, the city would be responsible, but that the city was not liable for failure to adopt a plan to drain the section of the city where the plaintiff's property was located nor for overflows occurring independently of any act on its part, or from extraordinary rains.—Court of Appeals of Kentucky.

#### TAX LIEN VALID

**Louisville vs. Seibert et al.**—In 1896 the city instituted an action to enforce a lien for taxes upon a lot of land owned by Seibert. Nothing further was done to prosecute the suit until 1901. In 1905 Seibert sold the land to the Columbia Finance and Trust Company. The city amended its suit, making the purchaser a party defendant. Under the statute providing that limitations shall run against both State and municipal taxation, a city's right to enforce a tax lien may be lost by inexcusable laches. In this instance, the claim of the city for taxes could have been ascertained by the purchaser by application to the proper officer, hence a delay of five years in prosecuting such suit does not dissolve the lis pendens as against defendant, though it purchased without actual notice of the suit.—Court of Appeals of Kentucky.

#### DOCK RIGHTS

**Brook Haven vs. Smith.**—A riparian owner built a pier beyond high water mark without permission from the State. It was admitted that the pier was not a nuisance. By the old law

any structure beyond high water mark was removable as a purpresture—that is, an invasion of the crown's private property in the bed of the tidal stream. This was changed in most of the original States, either by statute or usage. In other jurisdictions, abandoning the old law, it is said that the State holds the *jus privatum* in trust for the public, who derived benefit from the erection of wharves. Another view is that the littoral owner has an interest in the beach, including the right to wharf out. But this right is always subject to State regulation. The right to wharf out is a necessary part of a right of access to navigable water and that the purpresture doctrine, since it would be a great hindrance to commerce, is inapplicable to American conditions. It was held that the town could not remove the wharf as a purpresture.—New York Supreme Court.

#### PATENT CLAIMS

853,952. **Centering-Mold.** Jacob B. Blaw, Pittsburg, Pa., assignor to Blaw Collapsible Steel Centering Company, Pittsburg, Pa. Serial No. 343,005.

In combination, a tubular mold member of flexible material comprising an independent parti-tubular bottom member, and a plurality of separable co-operating parti-tubular upper members, and means for collapsing the parti-tubular members.

854,869. **Flanged Pipe.** Louis H. Brinkman, Hartford, Conn., assignor to Whitlock Coil Pipe Company, West Hartford, Conn., a Corporation of Connecticut. Serial No. 324,813.

As an article of manufacture, a pipe having at its end a flange formed by turning the pipe outwardly and then inwardly upon itself to form a double flange with the metal of the outwardly and inwardly turned members of the flange gradually reduced in thickness toward the outer edge of the flange, with the outer side of the outwardly turned member in a plane at substantially right angles to the axis of the pipe, and the outer side of the inwardly turned member at an oblique angle to the axis of the pipe, with a portion of the inwardly turned member of the flange faced in a plane at right angles to the axis of the pipe to form a contacting surface.

854,882. **Water-Meter.** Ernest E. Gamon, Long Island City, N. Y., assignor to Neptune Meter Company, Long Island City, N. Y., a Corporation of New Jersey. Serial No. 305,486.

The combination of a water meter casing and a valve casing, inlet and discharge passages in each of said casings, a valve plug rigidly and directly secured to said water meter casing and rotatably secured to said valve casing, direct and return flow ports in said plug in normal registry respectively with the inlet and discharge passages of said casings to carry the entire flow of water from the valve casing inlet passage to the discharge passage through said meter casing passages, stops on said plug and valve casing respectively for limiting the rotation of said plug therein, whereby the rotation of the said meter and plug from normal position will completely close communication between said valve casing passages.

854,936. **Coupling for Bell and Spigot Pipes.** Solomon R. Dresser, Bradford, Pa., assignor to S. R. Dresser Manufacturing Company, Bradford, Pa., a Corporation of Pennsylvania. Serial No. 277,075.

In a pipe coupling for bell and spigot pipe, the combination with the packing ring, of a clamping ring adapted to fit over the spigot and provided with means for engaging and compressing the packing ring, a second clamping ring adapted to surround the bell, having its interior surface provided with separated, inwardly extending bearing lugs for directly engaging the exterior of the bell to distribute the strain of said bolts around said ring and bell and clamping bolts connecting said clamping rings, substantially as described.

8545,061. **Coin-Slot Meter and Machine.** Michael King, Wickham, and John E. James, Islington, New South Wales, Australia. Serial No. 290,704.

In coin-actuated mechanism, in combination, an operating handle, a worm adapted to be rotated by such handle, a gear adapted to be rotated by said worm, a sliding worm

adapted to be moved by said gear, and means for rotating said sliding worm to restore it to its original position.

855,160. **Railroad Train-Shed.** Abraham L. Bush, East Orange, N. J. Serial No. 293,537.

In a railroad train shed, the combination of a roof having transverse members which extend across the track and longitudinal walls carried by said members and forming between them a ventilating duct which extends lengthwise and centrally over the track and opens through the roof directly into the outer air, whereby the steam, smoke and gases issuing from a locomotive in any position on the track are discharged directly into the outer air and prevented from becoming disseminated in the shed and remaining therein, substantially as set forth.

855,190. **Tamper - Proof Water - Meter.** Christian E. Loetzer, Sayre, Pa. Serial No. 305,852.

In a water-meter, the combination with the shell or case for the actuating mechanism, said shell having an annular threaded boss thereon, of the movement-box or cap mounted on said shell and having an annular threaded portion engaging with said boss, the female screw-member being provided with a lateral hole, and a fastening pin inserted through said hole and into the male screw-member, and a seal or plug in said hole covering the head of said fastening pin.

855,314. **Meter Connection.** Alba L. Holmes, Grand Rapids, Mich. Serial No. 303,720.

In combination with a water meter, an inflow and an outflow pipe, a large intermediate cup having a small central opening in the bottom, and an outflow opening to one side of the center, the sides of the cup extending up and having a screw thread in the inside surface, a cap having an annular body with a screw thread on its periphery to mesh with the screw thread in the cup, forming a water-tight joint, a small central tube integral with the cap and extending down forming a water-tight joint with the bottom of the cup and a water way from the inflow pipe to the meter, and an outflow pipe from the meter into and out of the large cup, as described.

#### INCORPORATIONS

**American Engineering and Construction Company,** Chicago, Ill., general contracting and engineering; capital, \$5,000. Incorporators: Walter A. Shaw, James McCollam, L. B. Vance.

**Bloomville Light and Heating Company,** Bloomville, O.; capital, \$10,000. Incorporators: F. J. Gillian and a number of others.

**Buffalo, Genesee and Rochester Railway Company,** Depew, N. Y.; electric street railroad; capital, \$7,500,000. Incorporators: Henry H. Kingston, Philadelphia; William B. Cutler and John H. Baker, Buffalo, N. Y., and others.

**Houston County Gas Company,** Portland, Me.; contractors and builders; capital, \$250,000. President, J. E. Manter; treasurer, C. E. Eaton; clerk, M. W. Baldwin, all of Portland, Me.

**Katonah Lighting Company,** Bedford, N. Y.; gas and electric light, heat and power; capital, \$30,000. Incorporators: William H. Fowler, Palmer H. Lewis, Katonah, N. Y.; J. Edson Fowler, Brewster, N. Y., and others.

**Lakewood Electric Light and Power Company,** Lakewood, N. Y.; light, heat and power; capital, \$20,000. Incorporators: E. William Jordon, Falconer, N. Y.; Arthur B. Couse, Binghamton, N. Y.; Zebra L. Squier, Lakewood, N. Y.

**Lockport Light, Heat and Power Company,** Lockport, N. Y.; to manufacture gas and electricity; capital, \$600,000. Incorporators: Alfred S. Cooke, 2460 Seventh avenue; Marshall J. Dodge, 128 East 56th street; James Abbott, 63 East 121st street, all of New York, and others.

**Los Angeles Harbor Company,** Los Angeles, Cal.; to construct wharves, to dredge and construct canals, etc., on the coasts of California; capital, \$2,500,000. Incorporators: H. C. Oakley, J. W. Oakley, R. P. Probasco, Los Angeles, Cal.

**Midland Electric Light, Heat and Power Company,** Midland, Pa.; capital, \$5,000. Incorporators: W. A. Rice, Beaver; John M. Hoverty, Pittsburg, and others.

**Oklahoma Fuel, Light and Power Company,** Chicago, Ill.; to furnish light, heat and power; capital, \$500,000.

**Overholtzer Electric Company,** Pomona, Cal.; capital, \$25,000. Incorporators: A. L. Stevens and a number of others.

**Stephenson County Lighting and Power Company,** Freeport, Ill.; to operate gas and electric plants; capital, \$5,000. Incorporators: Charles E. Gregory, Edwin R. Rockwell, Edwin H. Frank.

**Sullivan Engineering Company,** Hudson, N. Y.; to build electric, steam and water



power generating plants; capital, \$20,000. Incorporators: William H. E. Brander, Charles R. Rinehart, Hudson, N. Y.; Michael H. Sullivan, Poughkeepsie, N. Y.

**Jenks-Williams Paving Company**, Worcester, Mass.; paving stones, wood, cement, etc.; capital, \$20,000. President, Fred L. Jenks; treasurer, Samuel W. Wiley; clerk, Arthur C. Williams, all of Worcester, Mass.

**Morris County Dust Laying Company**, Morristown, N. J.; to sell "Dustoline," contract for the spreading of said preparation (according to the Lamson system of dust prevention) upon roads, etc., for laying of dust; capital, \$10,000. Incorporators: John S. Lamson, Jr., Summit, N. J.; Ellis Foster, Robert F. Lands, as above.

**Otsego and Schoharie Power, Heat and Light Company**, East Worcester, N. Y.; to generate electric light, heat and power; capital, \$10,000. Incorporators: John E. Dante, Aaron D. Hallenback, Lucy A. Dante, East Worcester, N. Y.

**Perry-Calahan Construction Company**, Canajoharie, N. Y.; to construct sewers, waterworks, roads, etc.; capital, \$5,000. Incorporators: Charles E. Perry and William Bellinger, Canajoharie, N. Y.; Harry D. Waits, Fort Plain, N. Y., and others.

**Pittsburg Sanitary Reduction and Incineration Company**, Camden, N. J.; to collect garbage, dead animals, etc.; capital, \$1,000,000. Incorporators: W. F. Miller, John M. Frederick, John Kerr, as above.

**Point Gratiot Sand and Gravel Company**, Sheridan, N. Y.; mining, quarrying, etc., to manufacture cement, lime, etc.; capital, \$12,000. Incorporators: Peter B. Colgan and Nick Bohn, Dunkirk, N. Y.; John Weiss, Buffalo, N. Y., and others.

**Syracuse and Chittenango Railway Company**, Syracuse, N. Y.; street railway; capital, \$500,000. Incorporators: William H. Dowe and George S. Terry, 29 Broadway; James J. Pearson, 40 Wall street, all of New York, and others.

**Thompson and Baxter Construction Company**, Peekskill, N. Y.; building and contracting; capital, \$10,000. Incorporators: James F. Thompson, William J. Wiberley, Peekskill, N. Y.; George Baxter, Putnam Valley, N. Y.

**United States Fire Protection Company**, Utica, N. Y.; to manufacture fire escapes, etc.; capital, \$100,000. Incorporators: Charles F. Davy and Charles Wallace, Mohawk, N. Y.; Eugene J. Dwyer, Rochester, N. Y.; Thomas A. McCall and Ward B. Edwards, Utica, N. Y.

**Williamsport Light Company**, Jersey City; railway, electric light, power, mining, etc., bonds, stocks, etc.; capital, \$500,000. Incorporators: Alfred Ely, Jacob Hehma, William H. Carey, as above.

## NEWS OF THE SOCIETIES

**National Electric Light Association.**—The thirtieth convention of the Association was held at the New Willard Hotel Washington, D. C., June 4-7. Among the papers read were the following of general municipal interest: "Report of Committee on Standard Rules for Electrical Construction and Operation," by Ernest H. Davis; "Report of Committee on Fire Hazards of Electricity," by C. E. Skinner; "New Developments in Arc Lamps and High Efficiency Electrodes," by G. M. Little; "Report of Committee to Consider Specifications for Street Lighting," by Dudley Farrand; "Municipal Ownership," by Arthur H. Grant; "Why We Failed in a Municipal Ownership Campaign," by Glenn Marsdon; "Co-Operative Lighting of Streets by Merchants," by H. J. Gille. In the progress report submitted by T. Cummerford Martin, the number of new central-station enterprises was stated at over 300. There are 4,902 electric power enterprises in the United States, Mexico and the West Indies. The total, however, does not increase in proportion to new plants, because the consolidations decrease the number of plants although they increase capitalization. The total sum invested in American central-station industry is \$850,000,000, the increase for the year being figured at 20 per cent. Operating expenses are put at \$115,000,000, leaving net earnings at \$50,000,000, or about 6 per cent. of the whole investment of capital.

**Texas Mayors' Association.**—The annual convention will be held at Amarillo, July 5 and 6. All Mayors, Aldermen and their families will meet in Fort Worth at the Metropolitan Hotel, Thursday, July 4, in time to take the Mayors' train for Amarillo at 9:15 p.m., via the Fort Worth and Denver City, arriving at Amarillo July 5 at noon. The convention will be called to order by President Perkins at 1 o'clock and the following will be the program:

Addresses of welcome by Mayor W. A. Miller, Jr., Mayor of Amarillo, and Judge W. M. Browning. Responses to address of welcome by Mayor W. D. Davis of North Fort Worth and Mayor F. C. Highsmith of Mineral Wells. Annual address by the President, Tom W. Perkins, of McKinney. Report of the Secretary-Treasurer, Committee on Membership, The Commission Form of Government—Mayor Rice, of Houston; Mayor John H. Bonner, of Tyler; Mayor Davis, of El Paso; Mayor Acheson, of Denison; Mayor Heyn, of Marshall; Mayor Hay, of Dallas, and others. Municipal Ownership of Public Utilities—Mayor F. C. Highsmith, of Mineral Wells; Mayor W. G. Elliott, of West; Mayor J. P. Hayter, of Decatur; Mayor W. D. Harris, of Fort Worth; Mayor J. F. Nichols, of Greenville; Mayor E. P. Hammond, of Temple; Mayor C. E. Craycroft, of Sherman; Mayor Seigrest, of Corpus Christi, and Alderman Jonas D. Bass, of McKinney. Entertainment at 8 p.m. by the Commercial Club and the Civic League of Amarillo. Saturday morning, July 6, automobile ride over the plains of Texas from 7 to 10. Business meeting at 10 o'clock. General discussion—Sanitation, street work, sidewalk building and everything pertaining to city government. At 12 o'clock an old-fashioned cowboy dinner at Beverley's ranch. At 3 p.m., business session. Selection of next place of meeting, election of officers, etc. Adjournment. At 8 p.m., entertainment by ladies of Amarillo.

**American Anti-Tuberculosis League.**—At the meeting of the Society at Atlantic City, June 4, Nathan Strauss read a paper on the dangers of raw milk. Three propositions were asserted: 1, That tuberculosis is a preventable disease; 2, that raw milk is the common cause of tuberculosis; 3, that the peril of tuberculosis in milk can be absolutely removed by proper pasteurization.

**Michigan State Firemen's Association.**—The thirty-third annual convention, attended by 400 members, was held in Detroit, June 4-6. The principal topic for discussion was the organization of a Firemen's Relief Association. Efforts have been made for several years to organize such a company, but for want of suitable legislation they have been unsuccessful. Recently, however, the Governor signed the bill that has been desired so long.

**International Association of Municipal Electricians.**—The twelfth annual convention will be held at Norfolk, Va., August 7, 8, and 9, in the City Hall. The papers selected for this meeting, which are of interest to all municipal electricians, are as follows:

"Electrical Inspections and Records."  
"Modern Application of Storage Batteries."  
"The Value of Volt and Ammeter Tests for Insulation."  
"A Modern Fire Alarm Central Office."  
"Operation of a Municipal Electric Light Plant."

August 9 has been set aside by the Exposition management as Municipal Electricians' Day, and special features and attentions will be given the electricians at the grounds on that day.

**Society of Engineers of Eastern New York and the Albany Society of Engineers.**—A joint meeting of the Societies at Albany, May 28, was attended by 200 members. President Rice of the Eastern New York Society presided. Engineer Landreth of the State Navigation Bureau described the barge canal. At Lockport it is proposed to build

locks with a drop of fifty-two feet, at Little Falls the drop will be forty-two feet, and at Cohoes thirty-four feet for five locks. At Rochester it is proposed to put a dam across the Genesee river and instead of an aqueduct, as at present, to cross the river by the pool formed by a dam outside of the city.

## Calendar of Meetings

**June 17-22.**  
**American Water Works Association.**—Twenty-seventh annual convention, Toronto, Ontario, Canada.—Dabney H. Maury, President; J. M. Diven, Charleston, S. C., Secretary.

**June 18.**  
**International Association of Chiefs of Police.**—Annual convention, Auditorium, Jamestown Exposition Grounds.—Major Richard Sylvester, President, Washington, D. C.

**June 18-20.**  
**Municipal League of Indiana.**—Meeting, Logansport, Ind.—Councilman J. T. McNary, Chairman, Local Committee, Logansport.

**June 18-21.**  
**Iowa State Firemen's Association.**—Tournament, Sioux City, Ia.—E. E. Parsons, Secretary, Marion, Ia.

**June 20-22.**  
**American Society for Testing Materials.**—Annual meeting, Atlantic City, N. J.—Edward Marburg, Secretary, University of Pennsylvania, Philadelphia.

**June 20-22.**  
**The Playground Association of America.**—First Annual meeting, Chicago, Ill.—Dr. H. S. Curtis, Secretary.

**June 25-27.**  
**Ohio Fire Chiefs' Association.**—Convention, Chillicothe, O.—D. K. Mosher, Secretary, Warren, O.

**June 25-27.**  
**North Dakota State Firemen's Association.**—Tournament, Oakes, N. D.—H. L. Read, Secretary, Bismarck.

**June 25-28.**  
**American Institute of Electrical Engineers.**—Annual meeting, Niagara Falls, N. Y.—Ralph W. Pope, Secretary, 29 West 39th street, New York City.

**June 26-28.**  
**International Association for the Prevention of Smoke.**—Second annual convention, Milwaukee, Wis.—Charles Poetke, Smoke Inspector, Milwaukee, Wis.

**July 5-6.**  
**Texas Mayors' Association.**—Convention, Amarillo, Tex.—Tom W. Perkins, McKinney, President.

**July 8.**  
**American Society of Civil Engineers.**—Annual convention, Mexico City, N. J.—Charles Warren Hunt, Secretary, 220 West 57th street, New York City.

**July 17-19.**  
**National Electrical Contractors' Association.**—Seventh annual convention, New York City.—J. C. Hatzel, Chairman, 671 Fifth avenue, New York, N. Y.

**August 6-8.**  
**American Association of Park Superintendents.**—Annual convention, Toronto, Ont.—F. L. Mulford, Secretary, Harrisburg, Pa.

**August 7-9.**  
**The International Association of Municipal Electricians.**—Annual convention, Jamestown Exposition, Norfolk, Va.—F. P. Foster, Secretary, Corning, N. Y.

**August 20-23.**  
**New York State Firemen's Association.**—Convention, Elmira, N. Y.

**September 17-19.**  
**American Society of Municipal Improvements.**—Annual convention, Detroit, Mich.—George W. Tillson, Secretary, 13 Park Row, New York City.

**September 17-19.**  
**League of Iowa Municipalities.**—Tenth annual convention, Council Bluffs, Iowa.—T. G. Pierce, Secretary, Marshalltown, Ia.

**September 19-21.**  
**League of American Municipalities.**—Annual convention, Jamestown Exposition.—John MacVicar, Secretary, Des Moines, Ia.

**October 8-11.**  
**International Association of Fire Engineers.**—Thirty-fifth Annual Convention, Washington, D. C.—James McFall, Secretary, Roanoke, Va.

**October 14-18.**  
**American Street and Interurban Railway Association.**—Annual convention, Atlantic City, N. J.—B. V. Swenson, Secretary, Engineering Societies Building, 33 West Thirty-ninth street, New York.

**November 19.**  
**National Municipal League.**—Annual convention, Providence, R. I. (in conjunction with the American Civic Association).—Charles Y. Bonaparte, Secretary.

## THE WEEK'S CONTRACT NEWS

Relating to Municipal and Public Work—Street Improvements—Paving, Road Making, Cleaning and Sprinkling—Sewerage, Water Supply and Public Lighting—Fire Equipment and Supplies—Buildings, Bridges and Street Railways—Sanitation, Garbage and Waste Disposal—Police, Parks and Miscellaneous—Proposals and Awards

To be of value this matter must be printed in the number immediately following its receipt, which makes it impossible for us to verify it all. Our sources of information are believed to be reliable, but we can not guarantee the correctness of all items. Parties in charge of proposed work are requested to send us information concerning it as early as possible; also corrections of any errors discovered.

### BIDS ASKED FOR

STATE	CITY	RECEIVED UNTIL	NATURE OF WORK	ADDRESS INQUIRIES TO
<b>Street Improvements</b>				
Ohio	Delaware	June 13, 10 A.M.	Macadam grade, drain 2.47 miles road	E. S. Mendenhall, County Surveyor.
Maryland	Towson	June 13, noon	Grading and macadamizing 1 mile ave.	E. Stanton Bosley, Sec'y Hwy. Com.
New York	New York	June 13, 2 P.M.	Repaving south approach Willis Ave. bridge	Jas. W. Stephenson, Com's bridges.
Connecticut	Redding	June 13 3 P.M.	Improving three sections of road	Benj. B. Banks, Selectman.
New Jersey	Newark	June 13	Paving, etc., many streets	M. R. Sherrerd, City Engineer.
Ohio	Zanesville	June 13	Constructing State highway of brick	Sam Huston, Columbus, Com'r.
Ohio	Caldwell	June 14, noon	Paving four streets with block, 6,900 sq. yds.	H. F. Neuhart, Clk., Bd. Pub. Serv.
Michigan	Alpena	June 14	Laying 4,000 sq. ft. of pavement	William Budde, Comptroller.
Ohio	Cincinnati	June 14	Improving Bank Lick road, culverts, etc.	Fred Drehs, Clk. Co. Com'rs.
Ohio	Loudonville	June 14	Paving, curb, grad., etc., Main St.	F. L. Niederheiser, Engineer.
Tennessee	Knoxville	June 14	Removing floor of Gay St. Co. bridge; laying steel plate floor; paving roadway bridge and abutments, requiring 250 tons of steel; 2 lots paving, 2,500 sq. yds. each	A. D. Collier, County Judge.
Ohio	Celina	June 15, 10 A.M.	Grading, gravel, macadam, etc., Keopple rd.	M. Lutz, County Engineer.
Minnesota	Fort Snelling	June 15	Constructing roads in post	Capt. Amos W. Kimball, Q. M.
Wisconsin	Oshkosh	June 15, noon	Paving three streets with asphalt; new bids.	Board of Public Works.
Connecticut	Farmington	June 15	Macadamizing section of road	Chas. Brandegee, Warden.
Ohio	Wellsville	June 15	Brick paving, curb, etc., 15th St., cost \$7,500.	J. N. George, City Engineer.
Iowa	Des Moines	June 16, 11 A.M.	Laying 15,298 sq. yds. asphalt Kingman boulevard, 1,860 creos. wood block, Sixth Ave. bridge	W. W. Wise, Chm. Bd. Pub. Works.
Indiana	Rockville	June 16	Constructing three gravel roads	H. A. Henderson, Co. Auditor.
Ohio	Chardon	June 17, 11 A.M.	Grading, draining, etc., Bainbridge road	Grange County Commissioners.
Ohio	Lisbon	June 17, 1 P.M.	Brick paving, grading, etc., two roads	R. G. Boyd, Chm. Co. Com'rs.
New Jersey	Union	June 17, 8 P.M.	Paving traprock block, curb, etc., 3d St.	Union Town Council, Hudson Co.
Ohio	Higginsport	June 17	Building all sidewalks during coming season	Frank R. Taylor, Village Clerk.
Georgia	Elberton	June 17	Laying 12,500 yds. brick, granite curb, etc.	H. S. Jaudon, Thomasville, Eng'r.
Minnesota	St. Paul	June 17	Macadam, gravel, etc., numerous streets	Edw. G. Krahmer, Co. Auditor.
Ohio	New Richmond	June 17	Artificial stone and cement walks, 20 streets	C. T. Rainum, Clk. Bd. Pub. Serv.
Maryland	Denton	June 18, noon	Grading and macadamizing one mile road	County Commissioners.
Maryland	Rockville	June 18, noon	Grading and macadamizing 2 1/2 miles road	Robert G. Hilton, Clk. Co. Com'rs.
Illinois	Brookfield	June 18, 8 P.M.	Laying 62,015 yds. macadam, 51,000 ft. curb	Henry C. Cox, Pres. Bd. Local Imp't.
New York	New Brighton, S. I.	June 18	Laying 60,000 ft. cement walk, 1,560 yds. asphalt blocks, etc.	Geo. Cromwell, Boro. Pres.
New Hampshire	Concord	June 19, 5 P.M.	Building 3 macadam roads; cost, \$11,950.	A. W. Dean, State Engineer.
West Virginia	Piedmont	June 19	Grading and paving 3 streets	R. H. Drane.
Ohio	Cleveland Heights	June 19	Paving, grading, etc., Cedar road	F. A. Peas, Eng. Co., Cleveland.
Ohio	Bellevue	June 19	Paving High St., brick, curb, gutter, etc.	Geo. Lieber, Village Clerk.
New York	Brooklyn	June 20, 3 P.M.	Repaving walks with asphalt tiles, Prospect Park; also Kings Park, Queens Borough	Park Board.
Iowa	Muscatine	June 20, 7:30 P.M.	Laying concrete walks, year end Mar. 15, '08.	James J. Ryan, City Engineer.
New Jersey	Plainfield	June 20, 8 P.M.	Macadamizing certain streets	Andrew J. Gavett, City Surveyor.
Iowa	Waterloo	June 20	Paving 16 blocks with asphalt, 3 with brick	C. T. Wilson, City Engineer.
Ohio	Cincinnati	June 21, noon	Improving Pike and Faust Ave.	Fred. Drehs, Clk. Co. Com'rs.
Illinois	McLeansboro	June 21, 1 P.M.	Paving 44,184 sq. yds. vit. brick on 5-in. cement, and 2-in. sand base, 30,370 ft. curb, grading, etc.	G. W. Hogan, Pres. Bd. Local Imp't.
Ohio	Youngstown	June 21	Paving 3 sts; grading 2 sts; sewer 3 sts.	F. M. Lillie, City Engineer.
Pennsylvania	Lancaster	June 21	Constructing 17,075 ft. road, two twps.	Jos. W. Hunter, Harrisburg, Com'r.
Ohio	Cleveland	June 22, 11 A.M.	Completing Depot Road. Impt., etc.	A. B. Lea, County Engineer.
West Virginia	Princeton	June 22	Street improvements, to cost \$23,000.	Hugh G. Woods, Mayor.
Pennsylvania	Reynoldsville	June 25, 8 P.M.	Grading, curbing and paving Jackson St.	Clement W. Flynn, Sec'y T'n Coun.
Ohio	Pomeroy	June 25	Laying stone, etc., Storrey's Run road	A. V. Vale, County Auditor.
Ohio	Batavia	June 26	Laying artificial stone sidewalks	G. H. Kain, Village Clerk.
Ohio	Mt. Vernon	June 26	Paving E. High St.; 11,000 yds. exc., 21,000 yds. brick, 10,000 yds. asphalt, 10,000 yds. macadam, 8,500 ft. straight, 1,840 ft. header curb	E. M. Parmenter, Clk. Bd. Pub. Ser.
Virginia	Norfolk	June 26, noon	Furnishing and constructing asphalt plant	W. T. Brooke, City Engineer.
Indiana	Nappanee	June 26	Paving Main and Market Sts. with brick	John W. Brown, Town Clerk.
Wisconsin	Janesville	June 27, 2 P.M.	Macadamizing 2,032 sq. yds.; comb. curb. and gutter, 301 lin. ft. Academy St.	C. V. Kerch, City Engineer.
Kansas	Fort Riley	July 1	Constructing 15,000 sq. ft. concrete sidewalks	Capt. W. M. Whitman, Q. M.
New York	Fort Niagara	July 1	Constructing concrete walks in post	Constructing Quartermaster.
Ohio	Bryan	July 2	Constructing State highway	Sam Huston, Columbus, Com'r.
Ohio	Mansfield	July 3	Constructing State highway	Sam Huston, Columbus, Com'r.
Tennessee	Johnson City	July 4, noon	Paving 6 sts., any material, curb, sewers, etc.	E. E. Ellsworth, Recorder.
India	Calcutta	December 31	Lighting town by electricity, gas, oil, or other method; now lighted by 9,300 gas lamps of 11,300 24 c.p. and 2,400 c.p. oil lamps	Municipal Council.

### Water Supply

Indiana	Lebanon	June 13, 7:30 P.M.	Two air compressors, 2 electric motors, 300 more air pumps, etc.	Edmond Connor, City Clerk.
New York	Buffalo	June 14, 11 A.M.	Furnishing c. i. pipe, specials, hydrants, brass corporation cocks, valves, oil, etc.	F. G. Ward, Com'r Pub. Works.
Michigan	St. Clair	June 14, 12 A.M.	Installing two 200 h.p. boilers, for 150 lbs. steam pressure; also pump 1 1/2 million gals. cap.	Brush & Allen, Detroit, Engrs



## Water Supply—Continued

New York	New York	June 14, 2 P.M.	Laying mains, 3 series sts., \$60,000 security.	John H. O'Brien, Water Com'r.
New York	New York	June 14, 2 P.M.	Furnishing 500 double-nozzle hydrants.	John H. O'Brien, Water Com'r.
Minnesota	Henderson	June 14	Building water works, inc. concrete es'r, etc.	Oscar Clausen, St. Paul, Engr.
District of Columbia	Washington	June 15, noon	Furnishing brass stopcocks, lead flange couplings and covers for water meter boxes.	H. B. F. Macfarland, Commissioner.
Florida	Fort Dade	June 15	Constructing 150,000-gal. steel tank and trestle, and installing ice and refrigerating plant.	Lt. M. H. Barry, Quartermaster.
Ohio	Bellaire	June 17, noon	Furnishing 6,000,000 gal. vertical pumping engine, erecting brick bldg. on concrete.	R. E. Crow, Clk., Bd. Pub. Service.
North Dakota	Fargo	June 17, 5 P.M.	Constructing 6- and 8-in. mains, 3 streets.	Samuel F. Crabbe, City Engineer.
Wyoming	Basin	June 17	Constructing 7,000 ft. water mains.	J. E. Bryant, City Clerk.
Nebraska	Tilden	June 17	Constructing water works, inc. stand pipe, concrete pump house, 2½ miles pipe, etc.	Iowa Eng. Co., Clinton, Ia.
Illinois	Chicago	June 19, 11 A.M.	Furnishing 2,150 tons c. i. pipe and 350 tons special castings for water pipe.	John J. Hanberg, Com'r Pub. Works.
New Brunswick	Daihouse	June 19	Pumping engine, 2 boilers, dam and gate-house electric light engine and system.	Willis Chipman, Toronto, Ont., Engr.
West Virginia	Romney	June 19	Constructing new water and sewer systems, School for Blind, inc. 100-gal. wooden tank on steel trestle, cost, \$13,000.	William Straus, Clerk of Board.
Ohio	Sandusky	June 20	Mechanical filtration plant, 6,000,000 gals.	A. C. Schultz, City Engineer.
New York	Mineola	June 21, 10 A.M.	Constructing water works, inc. 336 tons c. i. pipe, 7 tons special castings, gasoline engine, triplex pump, power house and 100,000-gal. tank on 125-ft. steel tower.	Walter E. Sexton, Phila., Pa., Engr.
Missouri	Kansas City	June 21, 2 P.M.	Furnishing 385 hub endgate valves, 4-16 in.; 8 double gate valves, 36-48 in.; 5 horizontal swing check valves, 16-30 in., f. o. b. cars, K. C.	Everett Elliott, Secy. Bd. Pub. Wks.
Michigan	Wayland	June 21	Constructing water works; cost, \$15,000.	Geo. C. Morgan, Chicago, Ill., Engr.
Ohio	Medina	June 21	Furnishing and laying c. i. pipe; also for 2 complete pumping units, each of 250,000 gal. pump, with engine, boiler, etc.	E. G. Bradbury, Columbus, Engr.
Wisconsin	West Bend	June 24, 2 P.M.	Constructing waterworks, inc. 256 tons 4-10-in. c. i. pipe, hydrants, valves, laying 2,732 ft. pipe, steel tank and tower, 50 h.p. gas engine and producer, 500-gal. deep-well triplex pump, 60,000-gal. steel tank and tower, and power house.	W. G. Kirchoffer, Madison, Eng'r.
New Jersey	Passaic	June 28, 8 P.M.	Furnishing and laying 37 miles. 6 to 20-in. pipes, hydrants, etc.	Geo. K. Rose, Ch'man Com on Water Supply.
Ohio	Sandusky	June 29	Constructing 6,000,000-gal. mechanical filtration plant, bidders to furnish plans, etc.; cost, \$75,000.	B. J. McGory, Clk. Bd. Pub. Serv.
Colorado	Pueblo	June 29	Sale of Compound Condensing crank and fly-wheel pumping engine, 7,500,000 gals.; never used.	D. E. Burke, Supt. Waterworks.
New Jersey	Fort Hancock	July 1, noon	Installing filtration plant at post.	Wm. Paterson, Constr. Q. M.
Colorado	Del Norte	July 1	Constructing \$100,000 reservoir.	W. H. Cochran, Pres. Con. L. & I. Co.
North Dakota	Harvey	July 1	Constructing water works, inc. stand-pipe, 18 x 75 ft., 95 ft. steel tower, 60,000-gal. tank, foundations, c. i. pipe and specials, water gates, hydrants, and water mains.	Jykken & Robinson, Grand Forks, Engineers.
Utah	Hatchtown	July 2	Building reservoir for irrigation purposes.	Jenson & McLaughlin, Logan, Engr.
South Dakota	Highmore	July 8	Equipping well, State Experimental Farm.	E. C. Ericson, Vermillion.
Missouri	Jackson	July 9, 7:30 P.M.	Complete water and light plant.	Hiram Phillips, St. Louis, Con. Engr.
Louisiana	Eunice	July 15, 6 P.M.	Constructing waterworks system.	Ira W. Sylvester, Alexandria, Consulting Engineer.
California	Sacramento	August 19, 8 P.M.	Competitive plans and specifications for constructing filtration plant.	M. J. Desmond, Clk. Bd. Trus.

## Sewerage

New York	Brooklyn	June 12, 11 A.M.	Constructing relief sewer, Gold St.	Bird S. Coler, Boro. Pres.
Ohio	Sandusky	June 14	Reinforced concrete sewer, 2 sts.; cost, \$26,000.	A. C. Schultz, City Engineer.
Ohio	Loudonville	June 14	Building underground storm sewer, Main St.	F. L. Niederhauser, Engineer.
Michigan	Ford (Ecorse P. O.)	June 15, 2 P.M.	Constructing sewer system; cost, \$80,000.	Mason L. Brown & Co., Detroit, Eng.
Ohio	Ironton	June 15	Laying sewers, 4 sts.; also culvert over creek.	George H. Davies, City Clerk.
Ohio	Piqua	June 15	Quantity 12, 15, 18-in. sewer pipe.	W. B. Mitchell, Clk. Bd. Pub. Ser.
Ohio	Zanesville	June 16	Two brick storm sanitary sewers; also pipe.	E. H. Smith, City Engineer.
New Jersey	Somerville	June 16	Laying 5,000 ft. 10-8-in. vit. pipe sewer.	Chas. Kenton, Pres. Board.
District of Columbia	Washington	June 17, noon	Constructing junction section, trunk sewers.	H. B. F. Macfarland, Commissioner.
Ohio	Bucyrus	June 17	Constructing sewer in Plymouth St.	E. E. Donesworth, Bd. Pub. Service.
North Dakota	Ellendale	June 17	Laying extension of sewer in Fifth St.	D. Cuyler Washburn, Aberdeen, S.D.
Iowa	Waterloo	June 17	Constructing 24, 815 ft 48 to 12-in. sewer.	C. T. Wilson, City Engineer.
Pennsylvania	League Island	June 18 10 A.M.	Installing drainage system, navy yard.	Commanding Officer.
New Hampshire	Allenstown	June 18, noon	Constructing 6,100 ft. 6-22-in. pipe sewers, 16 manholes and 16 catch-basins.	Frank Gay, Manchester, Eng'r.
Illinois	Ottawa	June 18, 2 P.M.	Constructing sewer system, inc. 5,432 ft. monolithic concrete sewer, 2 x 3 ft. egg-shape, to 5 ft. circular; 65,700 ft. 24 to 6-in. pipe, 36,000 cu. yds. rock exc., 35,000 ft. sheet piling, 2,350 inlets, 150 manholes, etc.	Charles F. Wilson, City Engineer.
Iowa	Ida Grove	June 18, 5 P.M.	Constructing sewer system, inc. 26,000 ft. pipe.	Geo. C. Hubbard, City Clerk.
New York	New Brighton, S. I.	June 18	Constructing sewer in First Ward.	Geo. Cromwell, Boro. Pres.
Ohio	Columbus	June 19, noon	Laying, etc., 8,100 ft. 20-in. force main, etc.	Henry Maetzel, Ch. Engr. D. P. S.
Ohio	Cleveland	June 19	Constructing sewers in 20 streets.	W. S. Springborn, Pres. B. P. S.
Indiana	Elkhart	June 19	Constructing trunk sewer, cost, \$62,574.	Board of Public Works.
Texas	Beaumont	June 19	Sewer work.	City Secretary.
New York	Amsterdam	June 19	Laying 30- and 24-in. storm sewer.	A. T. Young, Sec'y Sewer Comrs.
District of Columbia	Washington	June 20, noon	Constructing sewer.	H. B. F. Macfarland, Comm'r.
Ohio	Salem	June 20, noon	Constructing trunk line sewer.	Board of Public Service.
New York	Fort Edward	June 20, 8 P.M.	Constructing sewerage system.	James M. Murray, Village Clerk.
New Jersey	Plainfield	June 20, 8 P.M.	Building storm sewers, inc. 900 ft. 36 x 20-in. concrete sewer, 1,553 ft. 16-in. sewer, etc.	Andrew J. Gavett, City Surveyor.
Ohio	Youngstown	June 21	River view dist. sewer; also in 2 sts., etc.	P. M. Lillie, City Engineer.
Ohio	Canton	June 24, noon	Laying 9,070 ft. 4-24-in. vit. pipe, 3 streets.	B. F. Faust, Clk. Bd. Pub. Service.
North Carolina	Oxford	June 24	Constructing sanitary system, inc. 8 miles terra cotta pipe sewers, manholes, etc.	A. A. Chapman, Chm. Town Comrs.
Virginia	Portsmouth	June 27, 8 P.M.	Building discharge pipe line, 5th Ward sewer.	Bascom Sykes, City Engineer.
Massachusetts	Boston	June 28, 2:30 P.M.	Constructing in rock and earth trench part Sec. 82, ext. high level sewer, S. Met. sys'm.	Wm. M. Brown, Sewer Engineer.
Illinois	River Forest (Chic. P.O.)	July 1, 8 P.M.	Constructing sewer in Chicago Avenue.	P. B. Klock, Pres. Bd. Local Imp't.
South Dakota	Pierre	July 1, 8 P.M.	Furnishing and laying 3 miles 8-27-in. vit. clay or cement pipe, 1,900 ft. concrete sewer, 5½ ft. x 3½ ft.; 240 ft. 54-in. concrete sewer, etc.	Edward Mather, City Engineer.
Tennessee	Johnson City	July 4, noon	Laying 5,800 ft. 8 in. lateral sewers, 5,000 ft. trunk sewer, tile or concrete, etc., 6 streets.	E. E. Ellsworth, Recorder.
South Dakota	Vermillion	July 8	Building sewer system at Normal School.	Secretary.
Ohio	Piqua	August 1	Quantity of 24- and 34-in. sewer pipe.	W. B. Mitchell, Clk. Bd. Pub. Ser.

## Public Buildings

New York	New York	June 13, 11 A.M.	Erecting public bath, Bronx; cost, \$140,000.	Louis F. Haffen, Pres. Boro.
Connecticut	Meriden	June 13, 2 P.M.	Building U. S. Post Office.	J. K. Taylor, Washington, D. C.
New York	Buffalo	June 14, 11 A.M.	Erecting 6-room brick addition to school.	F. G. Ward, Com'r Pub. Works.
Indiana	Moorsville	June 14, 7 P.M.	Erecting brick school 69 x 73 ft.; 2 stories and base; cost, \$24,000; steam-heating plant; also remodel old bldg. and heating plant.	C. L. Hallam, Sec'y School Trus.
New Jersey	Jersey City	June 14, 8.30 P.M.	Erecting power house, stable and mortuary chapel, City Hospital.	Clinton & Russell, N. C. City, Archs.
Indiana	Kokomo	June 14	Erecting addition to County Infirmary.	W. L. Benson, County Auditor.
New York	Rochester	June 14	Erecting complete, 2-story brick sch., \$40,000	J. Foster, Warner, Architect.
Ohio	Columbus	June 14	Erecting women's dormitory, State Univ.	Carl E. Steeb, Sec'y Bd. Trus.
Rhode Island	Wickford	June 15, noon	Erecting brick school house; cost, \$28,120.	Wm. R. Walker & Son, Prov'ce, Ac's.
District of Columbia	Washington	June 15, 2 P.M.	Erecting assembly hall, Gov. Hosp. Insane.	Department of the Interior.
Illinois	Buckley	June 15	Erecting 4-room school; cost, \$10,000.	Spencer & Temple, Champaign, Archs.
Indiana	Newbury	June 15	Erecting high school building.	William Neff.
Iowa	Williamsburg	June 15	Erecting 2-story and base, high school.	Geo. M. Kerns, Ottumwa, Arch.
North Dakota	Antler	June 15	Erecting 2-story brick or concrete block sch.	Geo. W. Payne & Son, Carthage, Ill.
Ohio	Walbridge	June 15	Erecting school; separate bids.	Tschumy & Co., Toledo, Archs.
Iowa	Preston	June 15	Erecting 2-story brick 32 x 46 ft. City Hall.	G. E. Bartholomew, Mayor.
Massachusetts	Revere	June 15	Erecting high school; also heating, etc.	Geo. Huey, Boston, Eng.
Pennsylvania	Lancaster	June 15	Addition heating, etc., Boys High School.	C. Emlon Urban, Arch.
Texas	Fort Sam Houston	June 15	Erecting buildings at post.	L. J. Fleming, Q. M., U. S. A.
New York	New York	June 17, 11 A.M.	Alterations, etc., various school bldgs.	C. B. J. Snyder, Supt. Sch. Bldgs.
Indiana	Nashville	June 17, 1 P.M.	Cement and brick veneer school, 6 rooms.	School Trustee, Washington Twp.
Iowa	Webster City	June 17, 3 P.M.	Constructing U. S. Post Office, complete.	J. K. Taylor, Washington, D. C.
Iowa	Newton	June 17, 3 P.M.	Erecting high school building.	Dieman & Fiske, Cedar Rapids, Architects.
California	Redwood City	June 17	Erecting \$150,000 Court House for County.	Glenn Allen, San Francisco, Arch.
Oklahoma	Cordell	June 17	Erecting jail; cost, \$14,000 to \$18,000.	Paully Jail Co., St. Louis, Mo.
New York	New York	June 18, 10 A.M.	Alterations, etc., new bldg. for Police Hdqrs.	Theo. A. Bingham, Police Com'r.
Indiana	Greens Fork	June 18	Erecting a school building.	Florence Boyd, Trus. Clay twp.
Minnesota	Virginia	June 18	Erecting fire-engine house.	Albert A. Bickford, City Clerk.
North Dakota	Madison	June 18	Erecting library bldg. for Univ. of Montana.	J. M. Evans, Chm. Bldg. Com.
Ohio	Mansfield	June 19, 11:30 A.M.	Furnishing hoppers and lavatories for 120 steel cells at Ohio State Reformatory.	Fred S. Marquis, Sec'y Bd. Mgrs.
Ohio	Lakewood	June 19, noon	Erecting forge room Manual Training School.	L. W. Thomas, Newlands, Arch.
Michigan	Bessemer	June 19	Erecting school.	Charlton & Kuenzle, Marquette.
Illinois	Port Sheridan	June 20, noon	Remodeling mess hall into post exchange and gym, inc. heating and electric system, etc.	Capt. Wm. Weigel, Constr. Q. M.
New Jersey	Bayonne	June 20, 8:30 P.M.	Constructing public school No. 9.	Board of Education.
Florida	Fort Dade	June 20	Erecting, wiring, etc., 5 sets of quarters.	Capt. M. H. Barry, Q. M., U. S. A.
Louisiana	Slidell	June 20	Erecting high school; cost, \$7,000 or \$8,000.	And. J. Bryan, New Orleans, La.
Iowa	Burlington	June 20	Erecting 2-story school.	Wm. W. Turpen, Sec'y Sch. Bd.
Ohio	West Salem	June 20	Erecting 2-story brick and sand-stone school.	N. A. Mantz, Akron, Arch.
Indiana	Monticello	June 21, noon	Constructing Poor Asylum for County.	White County Commissioners.
Ohio	Columbus	June 21	Plumbing, repairs, etc., Co. Court House.	John Scott, Clk., Bd. Co. Com'rs.
New York	Troy	June 21	Erecting new fire house.	City Engineers.
New York	New York	June 21	Alterations, etc.; three armories.	Geo. B. McClellan, Chm. Com.
Indiana	Tipton	June 22	Plumbing, wiring, etc., high school.	J. T. Johnson & Co., Archs.
Louisiana	Whitecastle	June 24	Erecting a high school.	Andrew J. Bryan, New Orleans.
Indiana	Indianapolis	June 25	Heating apparatus for \$40,000 school.	John E. Cleland, Bd. Educ.
Minnesota	Hastings	June 25	Erecting a county jail.	P. A. Hoffman, County Auditor.
North Dakota	Rugby	June 25	Erecting 2-story and base, brick school.	Chas. N. Biorgh, Architect.
Michigan	Adrian	June 25	Erecting new school building.	W. Stearns, Secretary Bd. Education.
Tennessee	Nashville	June 26	Erecting Criminal Court and jail bldg.	Wheeler, Runge & Dickey.
New York	Ithaca	July 1, 3 P.M.	Constructing, complete, U. S. Post Office.	J. K. Taylor, Washington, D. C.
Arkansas	Paragould	July 1	Erecting 2-story and basement high school.	L. M. Weathers Co., Memphis, Tenn.
Wisconsin	Milwaukee	July 1	Erecting Auditorium; cost, \$450,000.	Ferry & Clas, Architects.
Ohio	Akron	July 1	Erecting 12-room school; cost, \$50,000.	Harpster & Bliss, Architects.
Indiana	Covington	July 2, noon	Repairing Court House roof, plumbing jail.	Fountain County Commissioners.
Texas	San Antonio	July 2, 3 P.M.	Extending, remodeling, etc., Federal Bldg.	James Knox Taylor, Wash., D. C.
Texas	Fort Worth	July 3, 3 P.M.	Extending, remodeling, etc., Federal Bldg.	James Knox Taylor, Wash., D. C.
North Dakota	Madison	July 8	Erecting ladies' dormitory at Normal School.	Secretary Board of Education.
Colorado	Colorado Springs	July 9, 3 P.M.	Erecting, wiring, etc., Federal Building.	James Knox Taylor, Wash., D. C.
Tennessee	Knoxville	July 10, 3 P.M.	Extension, etc., Federal Building.	James Knox Taylor, Wash., D. C.
Minnesota	Crookston	June 13, 2 P.M.	Erecting pile bridge Polk Co. Ditch No. 1.	N.A. Hoffard, County Auditor.
Pennsylvania	Wilkes-Barre	June 13, 2 P.M.	Erecting 34 bridges; stone and steel.	James M. Morris, Co. Comptroller.
Tennessee	Knoxville	June 14, 10 A.M.	Steel plate floor Gay St. bridge, etc.	L. C. Carter, Burlington, N. C. Bridge Engineer.
Ohio	Cincinnati	June 14, noon	Repairing abutments, 2 bridges; also 2 culverts.	Fred Dreihls, Clk. Co. Com'rs.
Ohio	Cleveland	June 14, noon	Substructure of viaduct over RR. tracks.	W. J. Carter, City Engineer.
District of Columbia	Washington	June 15, noon	Concrete-steel bridge over R. R. in Anacostia; span 17 ft.; contain 34 tons steel, 1,000 cu. yds. concrete.	H. B. F. Macfarland, Commissioner.
Ohio	Celina	June 15	Constructing bridges and culverts, Keopple road.	M. Lutz, County Engineer.
Idaho	Moscow	June 15	Erecting 5 bridges over creeks.	Board of County Commissioners.
Wisconsin	Watertown	June 15	Erecting 256-ft. plate girder bridge.	E. B. Parsons, City Engineer.
Kansas	Wichita	June 17, noon	Erecting rein. concrete bridge 500 ft. long 30-40 ft. road, two 8-ft. walks, also lighting it.	E. P. Martin, Clk., County Com'rs.
Ohio	Jefferson	June 17, 1 P.M.	Constructing stone or concrete abutment.	P. C. Remick, County Auditor.
Indiana	Rushville	June 17	Constructing 7 and repairing 2 bridges.	Rush County Commissioners.
Ohio	Cincinnati	June 17	Building 2 culverts; repairing 2 abutments and arch culvert, removing iron superstructure, etc.	Fred Dreihls, Clk. Co. Comm'rs.
Missouri	Brunswick	June 18	Erecting steel bridge, 700 ft. long.	O. G. Dameron, Keytesville, Co. Sur.
Ohio	Greenville	June 20, noon	Erecting steel or reinforced concrete bridge.	Chas. S. Slade, City Engineer.
Pennsylvania	Washington	June 20, noon	Constructing bridges.	Wm. Wylie, County Engineer.
Michigan	Grand Rapids	June 20, 8 P.M.	Erecting superstructure, steel bridge; four 150-ft. spans, roadway and 2 sidewalks.	L. W. Anderson, City Engineer.
Ohio	Athens	June 22	New steel bridge over Hocking River.	E. R. Walker, County Auditor.
Ohio	Columbus	June 24, noon	Subs. and superstructure Leonard Ave. viaduct, also approaches, etc., Marion twp. and approaches, etc., Hamilton twp.	W. C. Cussins, County Auditor.
Tennessee	Natl. Soldiers' Home	June 25	Building concrete bridge over Brush Creek.	Treasurer of Home.
Nebraska	Mitchell	June 26, 2 P.M.	Erecting wooden, steel and concrete bridges; regr. 11,000 cu. yds. concrete, and furnishing 450,000 lbs. structural and reinforcing steel; 66,000 lbs. c. i. head gates and operating devices.	U. S. Reclamation Service.
Pennsylvania	Frackville	July 1, noon	Building two concrete abutments and steel bridge of 4-riveted girders under RR. trucks, excav. and grading Spring St.	A. B. Cochran & Son, Pottsville, Eng.
New Brunswick	Fredericton	July 8	Constructing two spans each 252 2-3 ft. long.	C. H. L. Labilliois, Com'r Pub. Works.
New Mexico	Hagerman	July 8	Erecting metal and concrete bridge, 260 ft. long, 16 ft. roadway over Pecos River.	W. M. Atkinson, Chm. Co. Com'rs.
Tennessee	Nashville	July 10	Building concrete piers, 2 bridges, 2 rein concrete viaduct approaches, etc.	Howard M. Jones, Co. Eng.
Louisiana	New Orleans	July 15, 1 P.M.	Erecting Bascule or lift bridge.	Charles R. Kennedy, Comptroller.
Ontario	Toronto	July 16, noon	Supplying and erecting steel ry. bridges and hand-railing, Lansdowne Ave. subway.	C. H. Rust, City Engineer.
Porto Rico	San Juan	July 20, 10 A.M.	Plans for 5 steel riveted steel truss highway bridge spans, each 135 ft. 4-in. long between center of pins, 3 bridges.	J. J. Jimenez, Supt. Pub. Works.



## Miscellaneous

New York.....	New York.....	June 13, noon.....	Building subway Route No. 9, Delancey St..	Rapid Transit Commissioners.
New York.....	Brooklyn.....	June 13, 3 P.M.....	Furnishing 4 street sweepers and road scraper; erecting 3-rail pipe fence, Greenpoint Park.....	Moses Herrman, Park Board.
Missouri.....	St. Louis.....	June 14, noon.....	Lighting certain public bldgs. for 3 yrs.....	W. B. Dryden, Sec'y Bd. Local Imp.
Pennsylvania.....	Philadelphia.....	June 14, 1 P.M.....	Furnishing 350 kw. engine or turbine, etc.....	Col. Frank Heath, Frankford Arsenal.
New York.....	New York.....	June 14, 2 P.M.....	Erecting concrete gate house and wall and iron fence around stand pipe. College Pt.....	John H. O'Brien, Water Com'r.
Georgia.....	Macon.....	June 14, 3 P.M.....	Electric pass. elevator U. S. C. H. addit'n.....	J. K. Taylor, Washington, D. C.
California.....	Los Angeles.....	June 14.....	Delivery 30,000 bbls. Portland cement in 60 days, 1,250,000 bbls. in 12 months.....	H. B. Ferris, Sec'y Bd. Pub. Works.
California.....	Sausalito.....	June 14.....	Erecting electric system, furnishing current for lighting, etc., Forts Baker and Barry.....	Capt. B. F. Cheatham, Q. M., U. S. A.
Ontario.....	Ottawa.....	June 14.....	Completing landing pier at Quebec.....	Fred'k Gelinis, Sec'y D. P. W.
Minnesota.....	Fergus Falls.....	June 14.....	Building dam and power house; cost, \$44,840.....	G. H. Gard, City Clerk.
Washington.....	Fort Worden.....	June 15, 11 A.M.....	Installing fixtures, watt meters, and wiring.....	Lt. C. C. Burt, Quartermaster.
Tennessee.....	Chattanooga.....	June 15, noon.....	Constructing highway tunnel 700 ft. long under Mission Ridge.....	W. L. Dodds, County Engineer.
Florida.....	Fort Dade.....	June 15, 8 P.M.....	Constructing 150,000 gal. steel tank and trestle and installing ice and refrig. plant.....	Lt. M. H. Barry, Quartermaster.
Georgia.....	Elberton.....	July 15.....	Constructing electric power plant, operated by steam, 108 kw. alternator and exciter, 150 h.p. engine.....	G. W. Hubbard, Superintendent
New York.....	New York.....	June 17, 3 P.M.....	Furnishing, etc., 175 yds best Con. Bay sand, 80,000 N. River hard brick, 225 bbls. Portland, 150 Rosendale cement, planks, etc.....	Jno. F. Ahearn, Pres. Boro. Man.
Virginia.....	Arlington.....	June 17.....	Installing fire system, National Cemetery.....	Maj. M. Gray, Zalinski, U. S. A.
New York.....	Niagara Falls.....	June 21, noon.....	Outside electric lighting system, State reservation at Niagara.....	G. L. Heins, Albany, State Arch.
Ontario.....	Ottawa.....	June 21.....	Furnishing 1,600 bbls. Portland cement.....	L. K. Jones, Sec'y D. Rys. & Canals.
Ohio.....	Columbus.....	June 21.....	Electric wiring light, 5 yrs., etc., Co. C. H.....	Dawson & Holbrook, Architects.
Indiana.....	Fort Wayne.....	June 24, 3 P.M.....	Erecting new municipal lighting plant.....	Edward J. Lennon, Pres. B. P. W.
Ohio.....	Toledo.....	June 24.....	Building heating and power house, inc. stack, Lucas County Infirmary.....	Lucas County Auditor.
Ohio.....	Youngstown.....	June 29, 5 P.M.....	Collection, removal, disposal garbage, 5 yrs.....	Clate A. Smith, Sec'y Bd. Health.
Ontario.....	Hamilton.....	July 2.....	Lighting streets by electricity.....	S. H. Kent, City Clerk.
Missouri.....	Jackson.....	July 9, 7:30 P.M.....	Complete light and water plant.....	Hiram Phillips, St. Louis, Con. Eng.
Pennsylvania.....	Bradford.....	July 15.....	Electric lighting, 141 all-night street lights, contract to start June 13, 1908.....	Edward C. Charlton, City Clerk.

## STREET IMPROVEMENTS

**San Diego, Cal.**—Council is arranging to pave several additional streets.

**Pensacola, Fla.**—The matter of paving will be taken up shortly by the Board of Bond Trustees, which will soon advertise \$400,000 bonds for this purpose for sewers and for taking over the water plant; matters will be arranged shortly when a visit will be made by T. Chokley Hutton, of Wilmington, Del., Chief Engineer.

**Allentown, Ill.**—Robert Van Dusen, County Surveyor, is preparing plans and estimates for cement walks and curbing certain streets.

**Connersville, Ind.**—Bids are invited for three squares of gravel streets; specifications may be secured of R. J. Greenwood, City Engineer.—Jacob S. Clouds, City Engineer.

**Fort Wayne, Ind.**—Bids are asked by George W. Lindemuth, Auditor of Allen county, for construction of twelve miles of macadamized road in Allen county.

**Fort Wayne, Ind.**—The Board of Public Works has authorized the construction of about four miles of new cement walks; City Engineer Randall is preparing the plans.

**Michigan City, Ind.**—City Engineer Miles has been instructed to prepare plans and specifications for a pavement in Sixth street, from Wabash street to Sixth street bridge.

**Muncie, Ind.**—Council has decided to pave certain streets with brick.

**Anamosa, Ia.**—Resolutions are before Council to pave certain portions of Hubar street.—L. G. Fish, City Clerk.

**Pittsburg, Kan.**—Council has decided to issue \$5,000 additional paving bonds.

**Louisville, Ky.**—The people of Warren county will vote on the proposition of issuing \$150,000 bonds for improving roads.

**Newport, Ky.**—The bids for improving a large number of streets with combined cement curb and gutter and brick paving have been opened and aggregate \$70,000; the work will be divided among Joseph Collopy and Company, Edward Knoepfle and the Schoolfield Brothers.

**Detroit, Mich.**—Russell & Jennison, of Toledo, have recently been awarded contracts for about \$78,000 worth of paving; material to be used is creosoted wood block.

**Eaton Rapids, Mich.**—The question of issuing \$15,000 bonds for paving purposes will be submitted to a vote of the people.

**Jackson, Mich.**—The Board of Public Works has decided on the construction of \$65,000 worth of pavements this season, including North Mechanic street, Wildwood avenue, First and Cortland streets; City Engineer Hall estimates the cost of these three streets at \$42,000.

**Jackson, Mich.**—Bids will be received June 17 for the purchase of \$15,000 four per cent. paving bonds.—Jode Harrington, Recorder.

**St. Paul, Minn.**—Bids will be received for paving certain portions of St. Peters street with brick, asphalt or creosoted block, according to plans and specifications.—John S. Goody, Clerk of the Board.

**Manistee, Mich.**—Council has voted in favor of paving with macadam, Clay street, at a cost of \$1,200.

**Muskegon, Mich.**—The citizens have petitioned for paving certain portions of Western avenue.

**Pontiac, Mich.**—Estimates have been submitted to Council as follows: For paving Asylum avenue, brick on concrete, \$28,995; sheet asphalt on concrete, \$32,110; bituminous macadam, \$30,864. Oakland avenue, sheet asphalt, \$5,175; bituminous macadam, \$4,966; brick, \$3,487.

**St. Peter, Minn.**—The Board of Public Works has decided to resurface St. Peter street from Third to Tenth street with asphalt and later the other portion.

**Sciota, N. Y.**—An ordinance has passed directing the grading and paving of Mohawk avenue with Mack brick or block on 6-inch concrete foundation.—Village Board of Trustees.

**Barberton, O.**—Council has taken preliminary steps for paving Wooster road; Engineer Alcorn will prepare the plans and invite the bids.

**Bellevue, O.**—Sol M. Wolf has the contract for building a stone pike from Chicago Junction at \$6,700; it is to be of crushed stone.

**Cambridge, O.**—Council has passed resolutions to construct and repair fifteen sidewalks in various parts of the city; the construction of a large number of sanitary sewers and one paving job was also authorized, plans for which are to be prepared immediately.

**Cardington, O.**—The village will grade West Main street and have 6,102 square yards of brick laid and 3,890 feet of curb set.—Thad E. Buck, Mt. Gilead, Engineer.

**Celina, O.**—The Commissioners will authorize the construction of a pike along Romer and Jones road.

**Cincinnati, O.**—Council has authorized an issue of \$625,000 bonds for the establishment of Bathgate Park and the widening of several streets.

**Cincinnati, O.**—The Board of Public Service has again rejected all bids for improving Columbia avenue, and new legislation will be enacted and new bids invited; City Engineer Danenhauer estimated the cost at about \$90,000.

**Columbus, O.**—Walter Braun, County Engineer, has under construction plans for the improvement of East Broad street by paving and will invite bids soon.

**Crestline, O.**—Council has awarded contracts for improving Henry and Wile streets to Bormuth & Bower, and F. Gandert & Son, of Mansfield, have been awarded another contract; Wooster brick is to be used in both cases; the contracts amount to \$27,000.

**Fostoria, O.**—Council will report favorably on the proposition to pave Park avenue; Council has also passed on final reading resolutions to pave upwards of fifteen streets, and has decided to construct a sewer in District No. 2; the plans for these improvements will be immediately prepared and the contracts awarded as soon thereafter as possible.

**Delhi, O.**—The improvement of Lincoln avenue by paving and the construction of a new street of crushed stone with cement gutters have been authorized.

**Hamilton, O.**—Bids will be received, July 1, noon, for \$6,000 four per cent. bonds to pay the city's portion of the cost of improving South D street.—Thad. Straub, City Auditor.

**Ironton, O.**—Council will improve Fourth street by paving it with vitrified brick a width of forty feet and will construct cement curb and gutter; the improvement of Center street has also been authorized.

**Leipsic, O.**—Plans are being prepared for constructing a system of sewers and for paving Eastman street.—Riggs & Sherman Company, Cleveland, O.

**Lorain, O.**—The Board of Public Service is about to award contracts amounting to \$105,000 for macadamizing certain streets.

**Lorain, O.**—Council has declared it necessary to pave Franklin street.

**Lorain, O.**—Specifications for paving Bank street have been changed to provide for the combination curb and gutter of concrete instead of the ordinary sandstone curb.

**New Bremen, O.**—Council has passed the necessary legislation for paving First, Washington and Monroe streets.

**Portsmouth, O.**—The property owners of Prospect street have petitioned the Board of Public Service to have the street paved.

**Sandusky, O.**—Bids were not received for street paving recently advertised, legislation for the same having been declared illegal.—A. C. Schultz, Chief Engineer.

**Toledo, O.**—The solicitor will probably prepare legislation immediately for \$125,000 bond issue for the extension of the boulevard from Dorr street to Walbridge Park.

**Wilmington, O.**—Council has issued orders for the construction of new pavements on all streets which have heretofore been ordered but neglected to be built; they will be paved at once.

**Youngstown, O.**—Bonds, \$15,000, will be issued for widening West Boardman street from Hazel to Front street; Council is considering extension of Burke street at cost of \$10,000; resolutions have been passed to pave Iona street from Holmes to Ford, to grade Willow street and grade and sewer Perry street from Basin to Crab Creek.

**Zanesville, O.**—Steps will be taken soon to pave Wayne avenue, the cost of which will be about \$7,000.

**Harrisburg, Pa.**—Council is considering ordinances for paving Chestnut, Zarker, MacLay, Eighteenth, Crescent and Regina streets and the opening and grading of Walnut street.

**Culpeper, Va.**—An election will be held June 19 to decide the question of issuing \$5,000 road improvement bonds.

**Norfolk, Va.**—The Board of Control has had 100 copies of the specifications for the proposed municipal asphalt plant for the convenience of persons desiring to bid on the work.

**Morgantown, W. Va.**—The bond issue for the town of Shinnston for \$3,000 for paving streets and repairing the sewer system has been decided on.

**Kenosha, Wis.**—The city will soon advertise for bids for 29,525 yards of brick paving on concrete foundation and 14,615 yards on macadam foundation; also for 18,200 feet of stone curbing and 1,500 feet of concrete curbing.

## SEWERAGE

**Little Rock, Ark.**—Plans and specifications have been completed for a complete storm water sewer system; also for sanitary sewers.—Burns & McDonnell, Kansas City, Mo., Engineers.

**Pensacola, Fla.**—The sale of \$400,000 bonds will soon be made for sewers and paving, and for the purchase of the water plant.—T. Chalkley Hatton, Wilmington, Del., Chief Engineer.

**Butler, Ind.**—An ordinance has been passed providing for the construction of a \$47,000 sewer system.

**Marion, Ind.**—Dr. A. A. Hamilton, President of the School Board, recommends sewers to be laid in Meridian and Marion streets.

**Fredonia, Kan.**—Plans and specifications are being completed for a system of sanitary sewers with sewage disposal plant.—Burns & McDonnell, Kansas City, Mo., Engineers.

**Lexington, Ky.**—Council has recommended the construction of a sewerage system according to the Waring plans.

**Laurel, Md.**—W. D. Howells, of Washington, D. C., has completed plans for a sewer system for the town.

**Cadillac, Mich.**—Plans for constructing sewage disposal and sewage pumping station are being prepared.—George S. Pierson, C. E., Kalamazoo, Mich.

**Ford, Mich.**—Bids will be received, June 15, for the purchase of \$80,000 sewer bonds.—Robert A. Perry, Clerk of the Board.

**Grand Rapids, Mich.**—The State Senate has passed the bill allowing Grand Rapids to issue \$300,000 bonds to build two trunk sewers as an additional flood protection.—L. N. Anderson, City Engineer.

**St. Paul, Minn.**—The Assembly has passed the \$150,000 sewer bond ordinance from the Board of Aldermen and the bonds will be sold within a month and the work commenced.

**Joplin, Mo.**—Plans and specifications are being prepared for a complete storm water system, as well as sanitary sewers, for a portion of the city.—Burns & McDonnell, Kansas City, Mo., Engineers.

**Lincoln, Neb.**—The city is considering the construction of 1,560 feet of 30, and 2,630 feet, of 21-inch pipe sewers.—William Grant, City Engineer.

**Reno, Nev.**—Council has under consideration the issue of \$50,000 bonds for sewer and water purposes.

**Albany, N. Y.**—Council is considering ordinances for laying vitrified pipe sewer in Bonheim street, for constructing sewer North Lake avenue and Third street, and for paving Partridge street.

**Conneaut, O.**—The State Board of Health has recommended a purification system for the sewerage plant and has made a number of suggestions for improving the sanitary condition of the city; the report is in the hands of Health Officer Warner.

**Lancaster, O.**—City Engineer Wolf states that plans for the East End sewer system are about complete and that the improvement will cost about \$40,000; the matter is now in the hands of the Sewer Committee; the Sewer Board will award the contract for the big sewer in District No. 1 shortly; the lowest bidder is Thomas W. Hill, of Bellefontaine, at \$11.171 for tile and \$10.897 for cement.

**Ottawa, O.**—The County Commissioners will construct a cut-off of Dutch run, the cost of which will approximate \$10,000.

**Port Clinton, O.**—Council has passed ordinance declaring it necessary to build a sewer system.

**Springfield, O.**—An estimate has been submitted to the Board of Public Service showing that the total expense of building the Indian Run interceptor sewer will be \$31,984.50.—W. H. Sieverling, City Engineer.

**Utica, O.**—Council has decided to take up the question of constructing a sewer system in the village; no definite plan has been arrived at.

**Coaldale, Pa.**—The citizens will vote on the question of issuing \$35,000 in bonds for improving the sewerage system.

**Cresson, Pa.**—Bonds, \$9,000, have been voted for a new sewerage system.

**Harrisburg, Pa.**—Council is considering construction of sewers in Cameron street and in Alley, also reconstruction of Fourth street sewer.

**Minocqua, Wis.**—Plans and specifications for a sewage system, of which 1,000 or 2,000 feet will be laid this year, are being prepared.—F. E. Nathuos, C. E., Merrill, Wis.

## WATER SUPPLY

**Albertville, Ala.**—Proposals for a water works plant and franchise are desired.—James R. Sherman, Mayor.

**Russellville, Ark.**—The Southern Engineering & Construction Company has received franchise to put in an electric and water plant.

**Los Angeles, Cal.**—The Chief of the Fire Department recommends the extension of the water mains and the placing of additional fire hydrants.

**Rocky Ford, Col.**—David Fosdick, of the Power Springs Supply Company, has petitioned for franchise for furnishing water to the town of Manzangoo.

**Pensacola, Fla.**—The Board of Bond Trustees will soon advertise for sale of \$400,000 city improvement bonds for the purchase of the plant of the Pensacola Water Company and for additional paving and sewer work.—T. Chalkley Hatton, Chief Engineer, Wilmington, Del.

**Decatur, Ill.**—The city contemplates making improvements costing \$400,000, which will mean practically a new water works system.

**Moline, Ill.**—Municipal ownership of water works is being considered.

**Elkhart, Ind.**—The Board of Works is seeking the services of an expert engineer to assist in the preparation of plans for the proposed water works plant; bids for the construction of a plant will not be advertised for some few months yet.

**Checotah, I. T.**—The citizens have voted \$65,000 in bonds for water works purposes.

**Eldorado, Ia.**—The town has voted to install a pump at the water works.

**Almena, Kan.**—It has been decided to install a water works at a cost of \$15,000.

**Garden City, Kan.**—The business men are investigating the matter of securing salt water supply for the city.

**Topeka, Kan.**—Council is arranging to extend water mains in the Martin Dennis addition.

**Covington, Ky.**—The Board of Aldermen has appropriated \$40,000 for improvements to the water works.

**Lowell, Mass.**—The Water Department proposes to expand \$25,000 for a new pump in the Boulevard Pumping Station.

**Northville, Mich.**—It has been voted to spend \$1,800 for a water tower.

**Port Huron, Mich.**—Estimates are being secured for the purchase of an additional engine at the water works.

**St. Clair, Mich.**—New bids will be asked for pumps and boilers for the water works.

**Big Falls, Minn.**—The citizens have voted \$5,000 bonds for water works purposes.

**Comfrey, Minn.**—The question of issuing \$40,000 bonds for fire purposes and water works will be submitted to a vote of the people.

**Jackson, Mich.**—A vote will be taken June 26 on the question of purchasing the water works plant for \$216,000.

**Trenton, N. J.**—The Board of Water Commissioners is investigating the matter of establishing a meter system.

**Bergen, N. Y.**—The water works will be improved at a cost of \$2,000.

**East Aurora, N. Y.**—The Board proposes to purchase a site for a reservoir.

**Elba, N. Y.**—The Village Board has decided to construct several reservoirs for the city.

**Newark, N. J.**—Plans have been made to raise the dam of Oak Ridge reservoir at a cost of \$200,000.—Chief Engineer Sherrerd.

**Seneca Falls, N. Y.**—The water supply is unsatisfactory; a municipal plant is under consideration.—Sterling W. Pratt, Superintendent.

**Sidney, N. Y.**—Estimates for water works will be made by F. K. Baxter, of Utica.

**Canton, N. C.**—The town has voted to issue \$65,000 bonds for water works and other improvements.

**Ashtabula, O.**—The Ashtabula Water Company has been granted a new franchise and will make extensions.

**Celina, O.**—Bids will be received June 15 for the purchase of \$3,000 4 1-2 per cent. water extension bonds.—J. W. Winter, Village Clerk.

**Cleveland, O.**—The stockholders and directors of the Conneaut Water Company will favor the question of installing two new filter units and a coagulation tank of 130,000 gallons capacity.

**Jeffersonville, O.**—The village of London is about to expend \$5,000 on the improvement of its water works plant.

**Marion, O.**—The Marion Water Company will make three miles of pipe line extensions during the year, the cost of which will be \$22,000.

**Milford Center, O.**—The municipal light and water plant is to be sold at auction.

**Springfield, O.**—The Board of Public Service has ordered the following water extensions laid: Cassilly street between Woodlawn and Limestone street; Douglas street, north to McCreight avenue; Grand avenue between Mechanic and the Pennsylvania railroad; Miami street between Pleasant and Clark streets; Belmont avenue between Columbia and Sheridan avenue. All are to be six-inch pipes with the exception of Belmont avenue, which will be of twelve-inch material; the street railway company was ordered

to lay a covered waterway at Center and Southern avenue.—A. J. Moyer, President.

**Warren, O.**—The Special Council Committee has recommended that the proposition made by the Warren Light and Water Company for the purchase of its plant be rejected; the price asked is \$400,000; a committee of three expert engineers will likely be called upon to set a price upon the plant.

**Youngstown, O.**—Council has voted to issue \$15,000 bonds for water main extensions.

**Youngstown, O.**—The Board of Trustees of the Chamber of Commerce has taken up the question of securing a water supply for this city and has appointed a committee from the seven wards to make recommendations; Samuel G. McClure is Chairman of the First Ward Committee.

**Norman, Okla.**—The town will vote an issue \$27,000 water works extension bonds.

**Harrisburg, Pa.**—Council has passed ordinances for laying six-inch water pipe in Sixteenth, Briggs and Cumberland streets, and twelve-inch pipe in Fifteenth street.

**Chattanooga, Tenn.**—A vote will be taken on the proposition to issue bonds for a water works.

**Fayetteville, Tenn.**—Plans are being prepared for a 1,000,000 gallon reservoir.

**Denison, Tex.**—A water works will be installed.

**Eastland, Tex.**—The Citizens Waterworks Co., R. F. Jones, Secretary, want an estimate on a water works plant.

**Tacoma, Wash.**—The estimated cost of the Green river gravity water supply system is \$1,950,000.

**Milton, Wash.**—The citizens are preparing to establish a water plant.

**Barboursville, W. Va.**—Estimates for a water works are wanted.

**Clarksburg, W. Va.**—A bond issue of \$225,000 for improving water works and for other purposes is being considered.

**Whitman, W. Va.**—Bonds, \$2,000, have been voted for securing water for fire protection.

**London, Ont.**—Engineer Chipman, Toronto, recommends the metering of half the service and installation of high pressure fire system.

## LIGHTING AND ELECTRICITY

**Oakland, Cal.**—The Great Western Power Company will expend \$8,000,000 erecting power plant in East Oakland.

**Stonyford, Cal.**—The Snow Mountain Power and Light Company proposes to build a plant about three miles from the city; Albert Lindstrom and Charles Glenn are interested.

**Moline, Ill.**—Work will be begun immediately at the Moline power plant of the Peoples' Power Company, which, with the additional machinery to be installed, will mean an outlay of a quarter million dollars; this work comprehends doubling the size of the present boiler units, the installation of a new generator to develop 5,000 additional horsepower, and of other machinery which will make the Moline plant the largest in four States.

**Brookville, Ind.**—The Electric Light and Ice Company has been incorporated, with J. D. Hall, President; Charles Andrews, Secretary; the company proposes to establish an electric and ice plant at once.

**Clay City, Ind.**—The Clay City Light Company will receive bids for electric light plant, recently destroyed by fire.—C. F. Nickey, Manager.

**Davenport, Ia.**—The People's Light Company will make extensive improvements at a cost of \$230,000.

**Louisville, Ky.**—A new appropriation ordinance applying \$30,000 to pay for the electric light and heating plant has been introduced in Council.

**Baton Rouge, La.**—The Stone & Webster Company, which recently purchased the Baton Rouge electric and gas plant, will open its construction offices in Baton Rouge in the near future, preparatory to beginning the rebuilding of the gas and electric light plants.

**Brookline, Mass.**—Henry Howard and Philip F. Parker have been appointed to secure estimates for establishing a municipal lighting plant.

**Davison, Mich.**—S. Phelps has petitioned Council for franchises to install and operate an electric light and power plant.

**Mancelona, Mich.**—The electric light plant owned by the Wilder Company has been damaged by fire; repairs will be made.

**Marquette, Mich.**—The report of E. T. Sykes, of Chicago, Ill., who was to have made a survey for the municipal lighting plant, has not been satisfactory, and the engineer has been instructed to immediately make plans and specifications.

**Marshall, Minn.**—Bonds have been voted for the purpose of repairing and enlarging the electric plant.

**Stanberry, Mo.**—The Stanberry Electric Light plant has been purchased by John A. Shown for \$18,000; the plant will be put into operation and improved.



**Greene, N. Y.**—The Chenango Valley Electric Company has been incorporated to build an electric road from the village of Hamilton through Greene to Binghamton.—Address L. E. Chase.

**Lockport, N. Y.**—The Lockport Light and Power Company has been incorporated with a capital stock of \$600,000; A. S. Cooks, M. J. Dodge, and James Abbott, incorporators.

**Watervliet, N. Y.**—The electric service is not satisfactory; plans are being considered for improving it.

**Williamston, N. C.**—The Williamston Light & Power Company has been chartered with a capital of \$50,000, to generate and transmit electric power and sell same for light, etc.—John D. Biggs, Asa T. Crawford and others, incorporators.

**Wilson, N. C.**—The Dixie Lighting Company has been chartered with a capital stock of \$12,500 by J. R. Hardy, J. R. Joyner, William Teiser and others; the company proposes to manufacture, sell and install lighting and heating appliances, etc.

**Arlington, O.**—George Champe, of Toledo, is preparing plans for an electric light plant; the bids will be let at once.

**Columbus, O.**—The Board of Public Service will install new equipment and an additional turbine and generator at the municipal light plant, in accordance with the recommendations of Professors Hitchcock and Caldwell of the Ohio State University.

**Hamilton, O.**—Council has thrown out its acceptance of offers made by the General Electric Company and the Westinghouse people for the city electrical plant improvement; the switchboard bid, however, was accepted; J. H. Trunk is the low bidder for constructing a storm sewer in South Second street.

**Newark, O.**—It is proposed to erect six large arches for electric lights at the four corners of the Public Square; they will be constructed of steel at a cost of \$4,000.

**Toledo, O.**—Geo. Champe will supervise the construction of the municipal electric lighting plant to be constructed by the Council of the village of Arlington.

**Altoona, Pa.**—The Citizens' Electric Light, Heat and Power Company has decided to make a number of improvements.

**Seneca, S. C.**—The city has voted \$25,000 bonds for equipping an electric light plant.—J. W. Bird, Clerk of the Board.

**Palestine, Tex.**—The Palestine Electric and Ice Company has been incorporated with a capital stock of \$140,000 by George W. Burritt, William Broyles and others.

**Norfolk, Va.**—R. A. Wainright, President of the 200,000 League, is in favor of lighting the city with electricity during the exhibition.

**Centralia, Wash.**—George W. Gregory, of Seattle, is planning to install an electric power plant and water system at Centralia, and an electric railway system connecting Centralia and Chehalis; Centralia Council has been asked to give franchise.

**St. Thomas, Ont., Can.**—The Hydro-Electric Power Commission proposes to establish a water power at Big Bend in Wardsville; estimates have been made by H. G. Acres, Engineer of the Hydro-Electric Power Commission.

**Calcutta, India.**—Bids are asked until December 31 by the Municipal Council of Calcutta, India, for the lighting of the town by either electricity, gas, oil, or any other method. Area, 20 square miles; 300 miles of streets, including 170 miles of main streets, all lighted at present by about 9,300 gas lamps of an equivalent of 11,300 24 c.p. lamps and 2,400 c.p. oil lamps.

## FIRE EQUIPMENT

**Atlanta, Ga.**—The Mayor recommends the organization of four additional fire companies and purchase of additional fire apparatus, estimated to cost \$25,000.—W. R. Joyner, Mayor.

**Paris, Ky.**—Council is arranging to build an engine house at Main and Fourteenth streets.

**Turners Falls, Mass.**—The Montague Fire District has voted to raise and appropriate \$6,200 for maintenance of the Fire District, in addition to the appropriation in the annual meeting.

**Escanaba, Mich.**—The Fire Committee has recommended that a complete new fire alarm service, to cost \$500, be installed in the city as their present service is deficient, and arrangements will probably be made at once with the Gamewell Fire Alarm and Telegraph Company.—T. J. Burke, City Clerk.

**Kansas City, Mo.**—The Board of Public Works has been directed to advertise for bids for the purchase of a hook and ladder truck.

**St. Louis, Mo.**—The Board of Public Improvements has accepted plans for engine house No. 46, estimated to cost \$22,000.

**Elizabeth, N. J.**—Council will probably purchase property of F. L. Heidritter, Prince

street and Irvington avenue, for \$3,900, and erect a new engine house thereon for the Eleventh Ward.

**Wyoming, O.**—The Town Hall and the fire apparatus of this city have been destroyed by fire; loss, \$12,000; they will be replaced.

**Knoxville, Tenn.**—A fire station will be erected in East Knoxville.—W. O. White, Chairman.

**Fort Worth, Tex.**—City Commissioner Mulkey has been authorized to have plans prepared for a new fire hall at Second and Rush streets, to cost \$6,000; bids will soon be invited.—W. E. Bedecker, Chief, Fire Department.

**Toronto, Can.**—The Fire Chief recommends the purchase of a motor car and a combination hose wagon and chemical engine for the purpose of better fire protection.

## PUBLIC BUILDINGS

**Livingston, Ala.**—The citizens voted unanimously, with one exception, to issue \$20,000 bonds for erecting a school building.

**Burbank, Cal.**—Bids will be received, June 17, for the purchase of \$7,000 5 per cent., 7-year school bonds.—F. E. Mitchell, Chairman.

**Vallejo, Cal.**—The citizens have voted bonds for school purposes.

**Wilmington, Del.**—At a special meeting of the Board of Education the \$60,000 improvement bonds were sold to Henry P. Rumford at a premium of \$250.

**Casey, Ill.**—The citizens have voted bonds for the erection of school house.

**East St. Louis, Ill.**—Bids will be received, June 15, for the purchase of bonds issued for the erection of school in District No. 182.

**Kilbourne, Ill.**—An election will be held to decide the question of issuing bonds for school purposes.

**Goshen, Ind.**—The Elkhart County Council has voted \$50,000 bonds to complete and improve the County Court House.

**Martinsville, Ind.**—Council has appropriated \$10,000 for erecting a city building; plans have been prepared and bids are invited.—Hezik. Johnson, City Engineer.

**Covington, La.**—Bids will be received, June 17, for the purchase of \$30,500 5 per cent. school house bonds.—C. C. Williams, Mayor.

**Chisholm, Minn.**—Bids will be received, June 15, for the purchase of \$70,000 5 per cent. school bonds.—W. R. Schmidt, Clerk.

**Gulfport, Miss.**—Bids will be received, July 2, for the purchase of \$18,000 school bonds and \$4,000 5 per cent. jail bonds.—N. D. Goodwin, City Clerk.

**Mountain Grove, Mo.**—Bonds, \$5,000, have been voted for school purposes.

**Merchantsville, N. J.**—The School Board has decided to issue \$13,000 additional school bonds.

**Pleasantville, N. J.**—Bonds, \$13,000, have been authorized for the erection of a school house.

**Rowland, N. C.**—Bids will be received, June 15, for the purchase of \$12,500 30-year school bonds.—O. P. Chitty, Town Clerk.

**Amherst, O.**—Bids will be received, June 17, for the purchase of \$30,000 4 per cent. school bonds.—J. B. Avery, Clerk of the Board.

**Chickasaw, O.**—Bids will be received, June 15, for the purchase of \$8,000 school bonds; interest, 5 per cent.—Casper Clune, President of the Board.

**Eaton, O.**—The citizens have voted \$4,000 additional school bonds.

**Athens, Tenn.**—Bonds, \$15,000, have been authorized for the erection of a school house.

**Bartlett, Tex.**—An election will be held, June 17, to decide the question of issuing school bonds.

**Blanket, Tex.**—The citizens have voted \$10,000 school bonds.

**Big Springs, Tex.**—An election will be held, June 29, to decide the question of issuing \$46,000 Court House and jail bonds.

**Cedar Hill, Tex.**—The Cedar Hill School District has voted to build a \$10,000 school.—Prof. O. L. Guy, President of the Board.

**Cisco, Tex.**—Bonds, \$30,000, have been voted for the erection of a high school.

## STREET RAILWAYS

**Anniston, Ala.**—An ordinance has been introduced in Council to grant an electric street railway franchise to L. H. Kaplan and associates.

**Hartford, Conn.**—The Canaan and Berkshire Tramway Company has been organized to build a trolley line from Canaan to the Massachusetts boundary as a part of the interstate electric railway which is to be constructed.

**Waycross, Ga.**—Franchise to operate a street railway has been granted to Burdette Loomis, of Hartford, Conn.

**Springfield, Ill.**—The Springfield, Beards-

town & Quincy Railway has been incorporated with a capital of \$25,000 by Henry H. Colby, Robert E. Bone and John S. Burke, of Petersburg; the company will build a road from Springfield to Quincy.

**Evansville, Ind.**—The Evansville Suburban and Newberg Traction Company will erect a new station in Fifth street; bids have been received and the contract will be let in a short time; the station will cost between \$14,000 and \$20,000.

**Indianapolis, Ind.**—A mortgage for \$15,000,000 on the property of the Chicago, Indianapolis & Evansville Railroad, to secure a bond issue in this sum for the construction of the road, was filed.

**Chanute, Kan.**—Council has granted franchise to Kansas Southern Electric Railway to operate an electric line through Main street.

**Mt. Clemens, Mich.**—William T. Cross, Trustee, asks for a franchise for a railroad on Spruce and Avery streets; the proposed new road is to be either steam or electric, and is to connect with the new belt line at the Detroit city limits.

**Roswell, N. M.**—E. S. Alnutt, of Salina, Kan., proposes to establish an electric railway in Roswell.

**Rochester, N. Y.**—Under the name of the Buffalo, Genesee & Rochester Railway Company, of Depew, Erie county, a new electric street surface railway was incorporated to operate a line 60 miles long from Depew to Rochester with a branch line to Leroy in Genesee county; the capital of the new traction corporation is \$5,500,000, divided into \$2,500,000 of 6 per cent. preferred and \$3,000,000 of common stock; Henry H. Kingston, J. Andrew Harris, Jr., and others, incorporators.

**Cleveland, O.**—The Cleveland, Brooklyn & Elyria Railway Company has secured right-of-way and proposes to begin construction of the new line at once.—W. E. Brooks, Elyria, President.

**Findlay, O.**—The incorporation of a new interurban railroad company at Columbus by Toledo capitalists makes another interurban a possibility in northwestern Ohio; the proposed road is to diverge from the line of the Toledo, Port Clinton & Lakeside about three miles out of Oak Harbor, and pass through Ottawa, Sandusky and Seneca counties, intersecting Fremont and ending at Tiffin.

**Toledo, O.**—The Lake Erie, Fremont & Southern Railway Company has been incorporated with a capital stock of \$10,000 by H. F. Scheak, A. E. Dauser and Theo. Schmidt; the company proposes to build an electric road connecting Port Clinton with Tiffin.

**Zanesville, O.**—The Ohio Electric Railway Company, of Cincinnati, has been incorporated with a capital of \$100,000 for the purpose of operating an electric line from Zanesville to the Indiana line and extending to many other cities.—E. A. Berry and S. M. Murray, incorporators.

**Oregon City, Ore.**—The Portland Railway, Light & Power Company will extend its lines to the Chautauqua grounds.—F. I. Fuller, Superintendent.

**Portland, Ore.**—The Municipal Railway and Improvement Company has been incorporated with a capital stock of \$60,000 for the purpose of constructing an electric railway.—J. A. Ward and G. A. Hoffman, incorporators.

**Alamo, Tenn.**—The citizens of Humboldt are interested in the movement to build an electric road connecting the cities of the county; P. D. Lance is interested.

**Nashville, Tenn.**—The Nashville Railway & Light Company has filed a mortgage to secure \$15,000,000 of 5 per cent. 40-year refunding and improvement bonds.

**Cleburne, Tex.**—W. T. Martin, Cashier of the Marshall National Bank, has petitioned for franchise to operate an electric road.

**Mineral Wells, Tex.**—The citizens have raised a bonus of \$20,000 to secure the Northern Texas Traction Company to build a line from Fort Worth to Mineral Springs.—H. T. Edgar, Manager of the Company.

**Olympia, Wash.**—The Pacific Traction Company, through E. J. Felt, has made application to Council for a franchise upon leading business streets for the entrance into the city of the Felt interurban from Tacoma.

**Elkins, W. Va.**—The Elkins Electric Railway Company has been organized by electing J. C. McShadden, of Rockwood, Pa., as President, and W. K. Taylor, of Pittsburgh, Secretary; work of construction will be commenced at once.

**Brantford, Ont., Can.**—The Brantford Street Railway Company, the Grand Valley Radial Company, and the Woodstock and Ingersoll Railway Company have consolidated; the new company will operate under the name of Grand Valley Company; great improvements will be made by the new management; the track mileage will be doubled, and the system extended to Cainsville.—M. A. Verner, President.

## BRIDGES

**Danville, Ill.**—Council has under consideration a proposition to rebuild the West Main street bridge.

**Davenport, Ia.**—The Bridge Committee reports that fourteen county bridges were either carried away or damaged by flood; more will be built.

**Chesapeake City, Md.**—The Cecil County Commissioners will build a new iron bridge over the stream at Waterford on the Elkton-Chesapeake road.

**Springfield, Mass.**—Citizens have petitioned Council to widen the Plainfield street bridge to twice its present width.

**Muskegon, Mich.**—The County bridge across the Escanaba river will be repaired or rebuilt.

**Trenton, N. J.**—The Township Committees of Hamilton and Crosswicks, have decided to replace the bridge over Crosswicks creek, between the line of the counties of Mercer and Burlington, with a new steel truss structure with a reinforced concrete floor system and a five-foot cement walk on each side; plans will be prepared by the two township committees, and will be submitted to the two Boards of Freeholders for approval; the cost will be shared by Burlington and Mercer counties.

**Pittsburg, Pa.**—Citizens of the Nineteenth Ward are beginning an agitation to have a bridge constructed between Hoeveler street and Everett street, across the hollow which now separates the two thoroughfares.

**Pittsburg, Pa.**—Plans for proposed County bridge across the Allegheny river at Oakmont have been forwarded to Washington, D. C.

**Bartrop, Tex.**—Several bridges in Bartrop county have been taken out by flood; they will be rebuilt.

**Wallisville, Tex.**—Many bridges in Chambers county have been taken out by floods; surveys for new structures are being made.

## MISCELLANEOUS

**Chicago, Ill.**—The bill has been signed by the Governor authorizing the Commissioners of Lincoln Park to issue \$1,000,000 bonds for improvements.

**Maplewood, Mo.**—The Maplewood Improvement Association has completed arrangements to have the streets sprinkled. The streets are Manchester avenue, Sutton avenue and part of Big Bend road; a water plug is being installed at Manchester and Sutton avenues; a new sprinkling wagon has been purchased, costing \$200; George Brannon will do the sprinkling; a public subscription of \$1,000 has been raised for the purpose.

**Bath, N. Y.**—Bids will be received, June 29, two per cent for \$20,000 Steuben County bonds; the total indebtedness is now \$25,000.—Frederick W. Hastings, Clerk of the Board of Supervisors.

**Niagara Falls, N. Y.**—Mayor Andrew C. Douglass has recommended the purchase of thirty large iron waste cans to take care of the street refuse on Falls, Third and North Main streets; ten of the cans will be purchased as an experiment at \$3.40 or \$3.50.—James Hulls, Street Superintendent.

**Akron, O.**—State Engineer Dwight Paul has prepared plans for the construction of docks on what is known as the lower basin of the canal property; the docks will be 280 feet long and the waterway will have an average width of 100 feet; the new docks will be built of heavy wooden timbers.

**Canton, O.**—Bids will be received, June 17, for the purchase of \$12,000 improvement bonds.—Armstrong Ashbrook, City Auditor.

**Johnstown, Pa.**—The People's Garbage and Fertilizer Co. have made an agreement by which the incinerating plant in the Seventh Ward is to be leased to the Board of Health for a year; the city will receive a nominal sum from the garbage collectors for burning.

**Philadelphia, Pa.**—Bids will be received, June 24, noon, for \$6,000,000 of the \$13,500,000 4 per cent. 20-year bonds, authorized for the redemption of temporary loan, for the purchase and repair of pumps and machinery in the Bureau of Water, the improvement, extension and filtration of the water supply, the repaving with improved pavement of streets not occupied by passenger railway companies, the construction of main and branch sewers and new bridges, the removal of grade crossings in the southern section of the city, the purchase and improvement of small parks, the purchase and improvement of wharves and widening of Delaware avenue, the purchase of lots and erection of buildings for police, fire and bath purposes, the grading of streets and paving of intersections, the completion of City Hall, the purchase and laying of water pipes, the completion of South Broad street boulevard, the construction of a sewage disposal system for the Home of the Indigent, House of Correction and other municipal institutions near Torresdale, and the continuation of high pressure fire main service.—John E. Reayburn, Mayor.

## BIDS RECEIVED

**Los Angeles, Cal.**—Bids were received as follows for the proposed steam electric power plant: Schedule A: (1) two water tube boilers, each 5,000 square feet heating surface; (2) two water tube boilers, each 2,500 square feet heating surface; D'Olier Engineering Co., No. 1.—\$14,780; No. 2.—\$7,490; Pacific Coast Mfg. Co., No. 1.—\$12,625; No. 2.—\$6,925; Standard Engineering Corporation, No. 1.—\$13,735.60; No. 2.—\$7,733.75; Chas. C. Moore, four Stirling tube boilers, as specified, \$20,075; Schedule B: two k.w. steam turbine sets, pump and exciter, Hunt, Mirk & Co., Inc., \$57,801; D'Olier Engineering Co., \$56,134; the General Electric Company submitted alternative proposition for \$65,200 and Hunt, Mirk & Co. submitted alternate proposal for four turbine sets and condensing equipment for \$48,279; Schedule C: alternate proposals for two 600 h.p. cross compound condensing Corliss engines, pumps, generators, exciters and switchboard, \$86,500; D'Olier Engineering Co., \$451,884; Pacific Coast Mfg. Co., \$61,983; Standard Engineering Corporation, \$70,391.45; Schedule D: twenty-six motors, 2 to 75 h.p. and transmission, D'Olier Engineering Co., \$17,995; California Electric Company, \$17,218.25; Pacific Coast Mfg. Co., \$15,858.65; Standard Engineering Corporation, \$15,171.95; the General Electric Company submitted two alternative propositions for \$17,400 and \$17,331.80.—Horace B. Ferris, Secretary Board of Public Works.

**Bridgeport, Conn.**—Silliman & Godfrey have been awarded contract to lay Carbolium blocks, under a five-year guarantee, on Fairfield avenue, from Park to Clinton avenue, at \$3.11 per cubic yard or a total of \$45,095; John F. Kerwin offered to lay Wyckoff wood blocks under a five-year guarantee at \$3 per cubic yard or \$43,935.

**Ridley Park, Del.**—J. F. Stewart, Philadelphia, Pa., has been awarded contract for building sewers at \$1.28 per lineal foot for terra-cotta pipe, \$3.75 per cubic yard for rock excavation and \$30 for manholes; John Hanna's Sons bid \$1.29 for pipe, \$3.95 for rock excavation and \$45 for manholes.—W. P. Anthony, Chief Burgess.

**Washington, D. C.**—The Commissioners

have awarded contract for two second-size steam fire engines and a chemical engine to the American La France Fire Engine Company, and for combination chemical and hose wagon to the Combination Ladder Company.

**E. L. McClelland**, of Washington, has been awarded contract for building the bath houses and other structures at the new bathing beach at \$8,938; other bids were: G. J. Osterman, \$10,950; W. E. Mooney, \$11,382, and J. T. Walker & Son, \$11,750.

**Boston, Mass.**—Contract for surfacing 2,040 square yards of asphalt foundation have been awarded Warren Brothers Company.

**Cambridge, Mass.**—Warren Brothers Company, of Boston, will construct 15,000 square yards of bitulithic; this is the sixth consecutive year that the city has laid this style of pavement.

**Gloucester, Mass.**—C. R. Perkins, of Lawrence, Mass., has been awarded contract for constructing a new hose wagon for Steamer No. 1, at \$755; other bids were: American La France Engine Co., \$1,165; James Mulen, Waltham, \$1,150; Charles Waugh & Co., Cambridge, \$934.05; Combination Ladder Co., \$995; H. F. Keyes & Co., \$845.

**Escanaba, Mich.**—The Northern Engineering and Construction Company, of Escanaba, Mich., John G. Zain, General Manager, has been awarded contract to construct pavements on seventeen streets at approximately \$100,000, as follows: Grading from 15 to 25 cents per cubic yard; macadam, from \$1.55 to \$1.83 per cubic yard; tar macadam, \$1.65 per square yard, 11 inch; tar macadam, 8-inch, \$1.35 per square yard; gravel, from \$1.80½ to \$2.10 per cubic yard; combined curb and gutter, 60 cents per lineal foot; plain curb, 32 cents per lineal foot; catch-basins, sink connections, complete, \$31.50 each; lane holes, complete, \$4 each; all excavations ordered by the City Engineer, 30 cents; no material was decided upon, but it was agreed that the company will place a tar coating on such stone macadam as is desired at the actual cost of said coating to the company, not to exceed 6½ cents a square yard; wages of common labor, \$2 to \$2.25 per day; teams, \$4.50 to \$5 per day; the Cleveland Trinidad Paving Company, of Cleveland, submitted bids on ten streets.—M. Perron, Mayor; T. J. Burke, City Clerk.

**Biwabik, Minn.**—Council has under consideration an offer from the Biwabik Mining Company to furnish the electric lights needed and to pump the city water; the company asks \$1,200 per year for pumping water and \$3,800 per year for furnishing electricity for 1,200 incandescent lights; it is expected the offer will be accepted as soon as the contract can be drafted.

**Nyack, N. Y.**—The Water Commissioners have awarded contract to furnish 9,000 feet of pipe and specials required for installing and laying a 12-inch water main from the pumping station at West Nyack to the village, to the United States Cast Iron Pipe and Foundry Company, New York City, at

**STREET LAMP ATTACHMENT**

The present flat flame gas light quickly changed to  
— **BEST MODERN LIGHTS.**

Lamps giving 10-25 candlepower made to produce 40 to 70 candlepower. No additional gas consumed

**CENTURY LIGHT & POWER CO.**  
35 Warren St., N. Y. City




**Four-way adjustable street signs with reinforced steel tube posts and sheet metal perforated signs**

These signs are indestructible by the elements, do not rust or corrode, and can be read from a long distance and at any angle you approach them. Adjustable to the intersections, will carry as many signs as are needed for additional intersections. Write for catalogue. We contract with municipalities for signs and house numbering.

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**Perforated house numbers in any finish a specialty**

**THE AMERICAN STREET SIGN CO.**  
CLYDE, OHIO



**"Not How Much, but How Good"**

is another version of our motto, "QUALITY before QUANTITY."

The greater the number of pieces, or tons, of Cast Iron Pipe a foundry can turn out in a day, the better it pays—for that day

We get every piece we can, of course, but the matter of greatest concern to us is that every piece shall be GOOD

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**McWANE PIPE WORKS**

MAIN OFFICE—LYNCHBURG, VA.

EASTERN OFFICE  
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NEW YORK



\$35.70 per ton; delivery to be made August 1; the Camden Iron Works bid \$35.85, and Drummond and Company \$36.70.

**Wilmington, N. C.**—J. W. Woolard and John J. Furlong were low bidders for removing the city trash, garbage, etc., at \$7,312 per year, being about \$2,000 less than the expense to the city, which now does the work with its own teams and employees; it was proposed also to purchase city teams at prices to be agreed upon by contractors and Sanitary Committee and to give bond for faithful discharge of contract; S. J. Davis, same service exclusive of purchase of teams and without tender of bond for two years at \$10,000 per year; City Livery Company, same service for two years with tender of bond at \$9,880 per year; referred to Sanitary Committee.

Other bids for furnishing the city with supplies for the fiscal year, ending June next, were received and referred as follows:

**Garbage Cans**—J. W. Murchison & Co., 18 x 28, \$26.61 per dozen, \$5 extra for covers; same reinforced by wood stays, \$31.08 and \$5 for covers, subject to cash discount. Sloan & Sweeney, 50 cans with hardwood strips, 18x26, with covers, \$126; same with triangular metal strips, \$142.50. Sanitary Committee.

**Lighting**—Consolidated Railways, Light and Power Company, 117 or more arc lamps, as now located, \$65 per year, with new installations at \$25 each if within 800 feet of present lines; current for fire alarm battery, \$18 per year; gas for public buildings, \$1.45 per thousand cubic feet; incandescents for five fire houses, market houses and City Hall, 8 cents per thousand watts as registered by meter, 73 Welsbach street lamps and care of same at \$28 per year, city to furnish posts. Light Committee.

**Granite Curbing**—Carolina Cut Stone Company, of Wilmington; 17 cents per lineal foot of 4 inches wide and 10 inches high, same as city has been receiving; 5 inches wide and 10 inches high, 18 cents; 5 inches wide and 14 inches high, 22 cents, all f. o. b. cars at Wilmington; J. T. Wyatt, Salisbury, N. C., 17 cents per lineal foot same as city has been receiving; also supplementary bid, 4 inches wide by 14 to 16 inches high, point top, ends jointed, 17 cents per lineal foot; 4 inches wide, 18 inches wide, point top and six down on front and three on the back, ends pointed, 30 cents. Streets and Wharves Committee.

**Crushed Granite**—J. T. Wyatt, Salisbury, three sizes, 90 cents per ton, three-quarter inches to one-quarter, \$1.25 per ton f. o. b. cars at quarry. Street and Wharves Committee.

**Crushed Rock**—C. H. Dock & Co., same as furnished before at quarry for \$1.30 per ton, less six cents per ton rental. Streets and Wharves Committee.

**Cement, Pipe, Lime and Terra Cotta Pipe**—Roger Moore's Sons & Co., Tennessee rock lime, 90 cents at warehouse, 95 cents delivered; Virginia rock lime, \$1.00 at warehouse, \$1.05 delivered; Alpha Portland cement, \$2.25 per barrel and \$2.30 in bags, with five cents additional for delivery; good building clay brick, \$6.75 per M., at yard, f. o. b., cars here, \$7.50; f. o. b. wharf, \$7.75; delivered \$8.00; vitrified terra cotta pipe in car load lots f. o. b. Wilmington, 4-inch, 6 cents per foot; 5-inch, 7 cents; 6-inch, 8½ cents; 8-inch, 12½ cents; 10-inch, 19 cents; 12-inch, 28 cents; 15-inch, 38 cents; 18-inch, 52 cents; 20-inch, 68 cents; 24-inch, \$1.05. Hooper & Flynn Company, hard building brick, \$7.50 at wharf; delivered, \$8.50. Selected extra paving brick, \$12.50 at wharf and \$13.50 delivered. Referred to Streets and Wharves Committee.

**Care of Oil Lamps**—J. B. Casteen, \$960 per year. Light Committee.

**Coal and Wood**—Wm. E. Worth & Co., anthracite, any size, \$6.74; Toms Creek, \$4.90; Jellico, \$5.44. Steam coal, Admiralty R. O. M., \$3.69; Toms Creek, \$3.95, both in car lots; from yards \$4 and \$3.75. Oak wood, cut, \$1.36 per load, four feet, \$1.25; pine wood, cut, \$1.26; 4 feet, \$1.15. Springer Coal Company, Pennsylvania Anthracite, \$6.25; Jellico lump, \$5.20; highest grade bituminous steam coal, \$4.20. Public Building Committee.

**Advertising**—Jackson & Bell Company, 30 cents per inch flat each insertion; the Morning Star, 60 cents per inch for first insertion, 30 cents per inch for each subsequent insertion. Referred to Finance Committee.

**Feeding Prisoners**—Mrs. Jane Sheehan, 15 cents per meal, an advance of 2½ cents on account of increased cost of provisions. Police Committee, with recommendation that contract be awarded.

**Care of city live stock, feeding, shoeing and stabling and housing carts**—City Livery Company at \$15 per month. Referred to Streets and Wharves Committee.

**Akron, O.**—M. S. Long, local agent for the Reo Automobile Company, Lansing Mich., has been awarded contract to supply a new automobile patrol wagon, at \$1,700; the new automobile will be of a carriage type, Reo, 2 cylinders, and of 20-horsepower, of the 1907 pattern; the other bidders were J. M. Saunderson, \$1,850, Cartercar; J. R. Gammeter, \$2,500, Premier; Ernest Ruede, \$2,350, Pope-Hartford.

**Dayton, O.**—The Board of Public Service has awarded Hecker & Kirchner the contract for paving Kinnard avenue, from Dry Hollow to Western avenue, and Frank Munger the contract for paving Clifford avenue, from National avenue to Kinnard.

**East Cleveland, O.**—The U. S. Cast Iron Pipe Company, of Cleveland, has been awarded contract to furnish 40 short tons of 20-inch cast-iron pipe at \$37 per ton.

**Fremont, O.**—The Modern Construction Company is the low bidder for \$13,999 worth of paving at Lindsey; Logan block will be used.

**Hamilton, O.**—The Andrews Asphalt Paving Company, of Hamilton, has been awarded contract to lay sheet asphalt, with combined cement curb and gutter, on Maple avenue, from Third street to East avenue, for \$26,605.60; and vitrified brick and cement curb and filler on 14,000 square yards in North B street, from Main street to Martha avenue, Logan brick being offered at \$36,412.50, or \$1.94 per square yard, and Metropolitan brick for \$36,972.50, or \$1.98 per square yard; a list of the brick is being made by the Ohio State University; on Maple avenue there are to be 11,750 square yards of Bermudez asphalt to be laid on 6-inch concrete base, at \$1.94 per square yard; on the Maple avenue paving the Barber Asphalt Company bid \$27,988.15, on Trinidad asphalt; F. M. Kemp & Sons, \$29,561, on Logan block and stone curb, and Andrews Asphalt Paving Company \$27,959.10 for Logan block and stone curb and \$28,429.10 for Metropolitan block; on North B street, F. M. Kemp & Son bid \$39,410 for Logan block.—A. Rothwell, Board of Public Service.

**Kent, O.**—Wildes & Davidson, of Akron, have been awarded contract to construct 1,562 feet of 8-inch round cement sewer in 8-foot trench, sandy soil and rock excavation, at \$1.26 per lineal foot; total, \$1,960.60; M. Burke, of Lorain, bid \$2,598, and L. Garrett, of Kent, \$2,499; wages of common labor, \$2 per day.—T. A. McMahon, Corporation Club.

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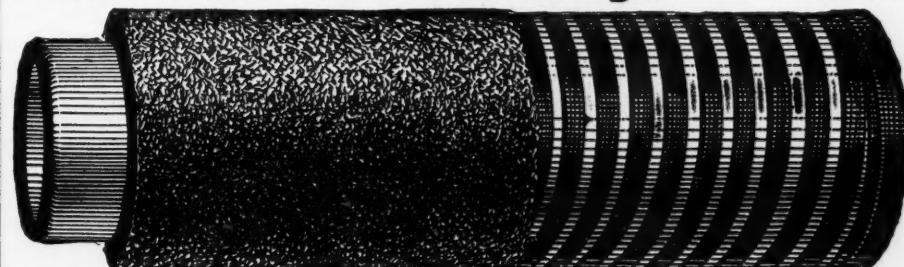
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There is no extra cost for caulking joints in laying.

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## PERSONALS

ADAM, J. N., Mayor of Buffalo, N. Y., has gone to Scotland with his sister, Miss J. G. Patterson, for his vacation, and will visit another sister at his old home; during his absence Alderman Louis P. Fuhrmann will hold the reins of government, having been designated by Mayor Adam as Acting Mayor.

BECKER, SHERBURNE M., Mayor of Milwaukee, Wis., has been offered a salary of \$1,500 per week to abandon the Mayors' chair and become leading man in a play which depicts events similar to those in the political career of the "Boy Mayor."

BROWN, WALTER A., Assistant City Engineer of Springfield, Mass., has resigned to take up private practice in Greenfield and Springfield, and is now Treasurer of the Clapp & Abercrombie Company, Civil Engineers, of Greenfield.

CLARKE, L. A., Mayor of Covington, Ga., for three terms, and who for eight or ten years had been connected with the city government, died recently, aged 33 years.

COSBY, CAPT. SPENCER, Engineer Officer in charge of the Washington Aqueduct, has recommended to the War Department that the Conduit road be closed to travel in order to prevent Mayor Garrett and Marshal Collins, of the town of Glen Echo, from arresting diplomats and other automobilists who violate the village ordinances by speeding their cars at more than twelve miles an hour; the Judge Advocate General of the Army will pass on the matter.

FISHER, EDWIN A., City Engineer of Rochester, N. Y., recently entertained E. H. Christ, member of the Board of Public Works of Grand Rapids, Mich., and L. W. Anderson, City Engineer, who were appointed as a committee to visit a number of eastern cities and inspect grade crossings and subways, with a view to incorporating the best ideas in new construction work planned for Grand Rapids; the visitors also took the opportunity to inspect Cobbs Hill reservoir and left for Cleveland; later they will visit Chicago and Detroit.

HIGHBEE, WILLIAM, has been elected Superintendent of Waterworks of Yankton, S. D.

KEMPEL, CHARLES W., Mayor of Akron, O., with a party of friends recently made a trip through the Southwest and Mexico, and in the latter country was the guest of M. J. McDonald, a wealthy mine owner, whose home is at Guanajuata.

KENNELLY, PATRICK, Director of Public Works of Bridgeport, Conn., for a score or more of years, passed away recently and his demise will probably result in changes in the office; Mayor Marcus L. Reynolds is in favor of introducing the engineering feature into the Department at once by the appointment of a Civil Engineer to the position; the present salary of \$2,500 per annum will probably be increased and a Street Commissioner appointed to supervise entirely that part of the work which now comes under the Director.

LINTON, HARVEY, Altoona, Pa., announces that he is now located at 47 Central Trust Building, Altoona, for the practice of Civil Engineering. Mr. Linton has been City Engineer of Altoona for eighteen years.

PURDY, J. H., General Manager of the City Water Company of Pittsburg, Pa., address the Chamber of Commerce of Chattanooga, Tenn., June 6, on water works conditions of the city and treated also of private ownership of water works.

PUTNAM, H. C., Mayor of Brodhead, Wis., recently surprised his friends by marrying Miss Clara Claycomb and departing on the first train to Oshkosh for a wedding trip.

SHERIDAN, JOHN C., New York, Engineer of Construction, Bureau of Sewers, has been appointed Chief Engineer, Bureau of Highways, Borough of Brooklyn, to succeed George W. Tillson appointed as Engineer of Highways, Borough of Manhattan.

THISTLEWOOD, WILBUR B., has been reappointed City Engineer of Cairo, Ill., and the salary of the office increased from \$1,200 to \$1,500 per annum.

THOMPSON, AARON R., Commissioner of Public Works of Syracuse, N. Y., 1906-07 and also in 1902-03, has resigned, owing to ill health, and Mayor Alan C. Fobes has named Deputy Commissioner Frank M. Westcott for the position, the latter place being filled by the appointment of James McLusky, Chief Clerk of the Department.

VAN ORTRUM, SAMUEL J., a member of Racine, Wis., and a graduate of the University of California, who has been connected with the Engineering Department of Pasadena, Cal., for several years, has been made City Engineer of the California municipality; he is only 27 years of age, but is a recognized authority on water supply and has rendered signal service in this line during his connection with municipal work.

WHEELER, RALPH N., of Brooklyn, N. Y., has been appointed Division Engineer, Board of Water Supply of New York City.

WILSON, HORACE, Mayor of Wilmington, Del., was recently re-elected over Ex-Mayor Bird.

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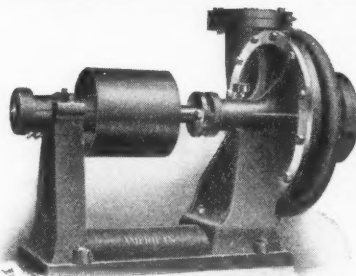
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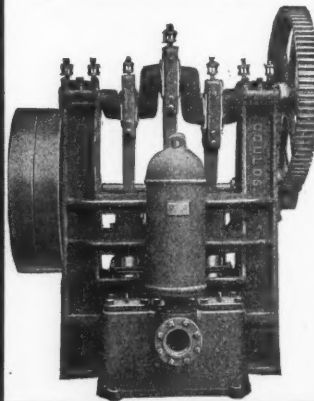
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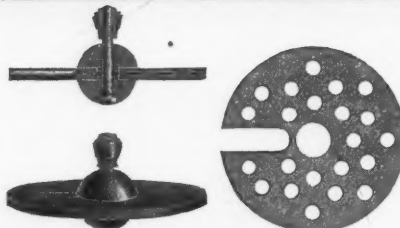
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